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Find the *HDI Instrumentation IPS-6000 / SRA-FA* at our website: *Click HERE*

HDI Instrumentation
IPS-6000
SRA Control

Screenshots Captured by Artisan Scientific
Version 1.0
2/19/2008

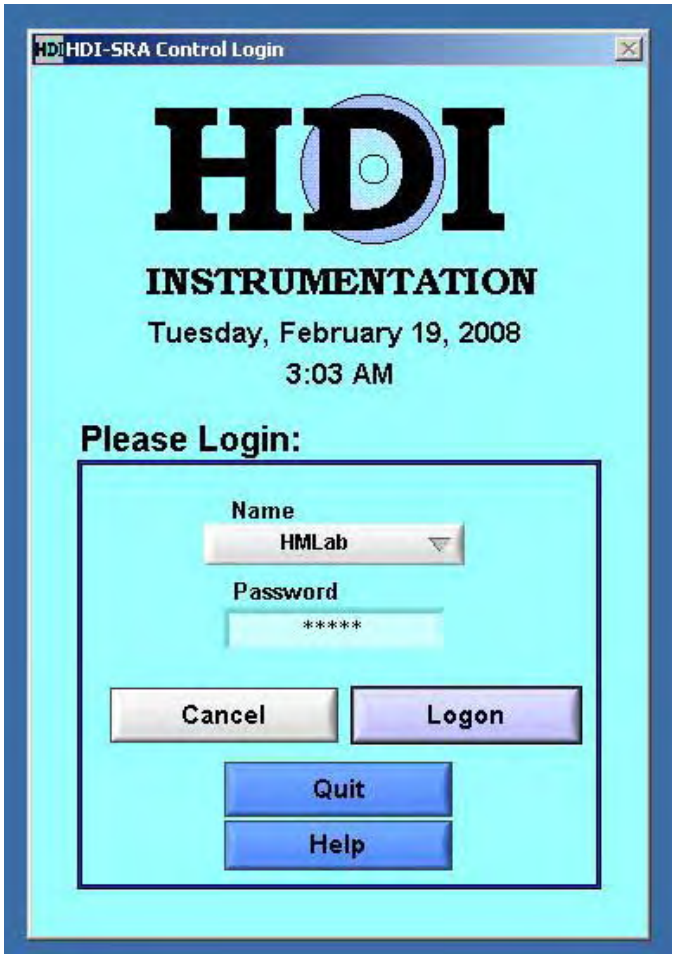
This document is a collection of screenshots and descriptions of the functions from the HDI IPS-6000 and SRA Control Computer Interface. The descriptions are adapted from the help files located in the software.

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Startup Splash Screen:



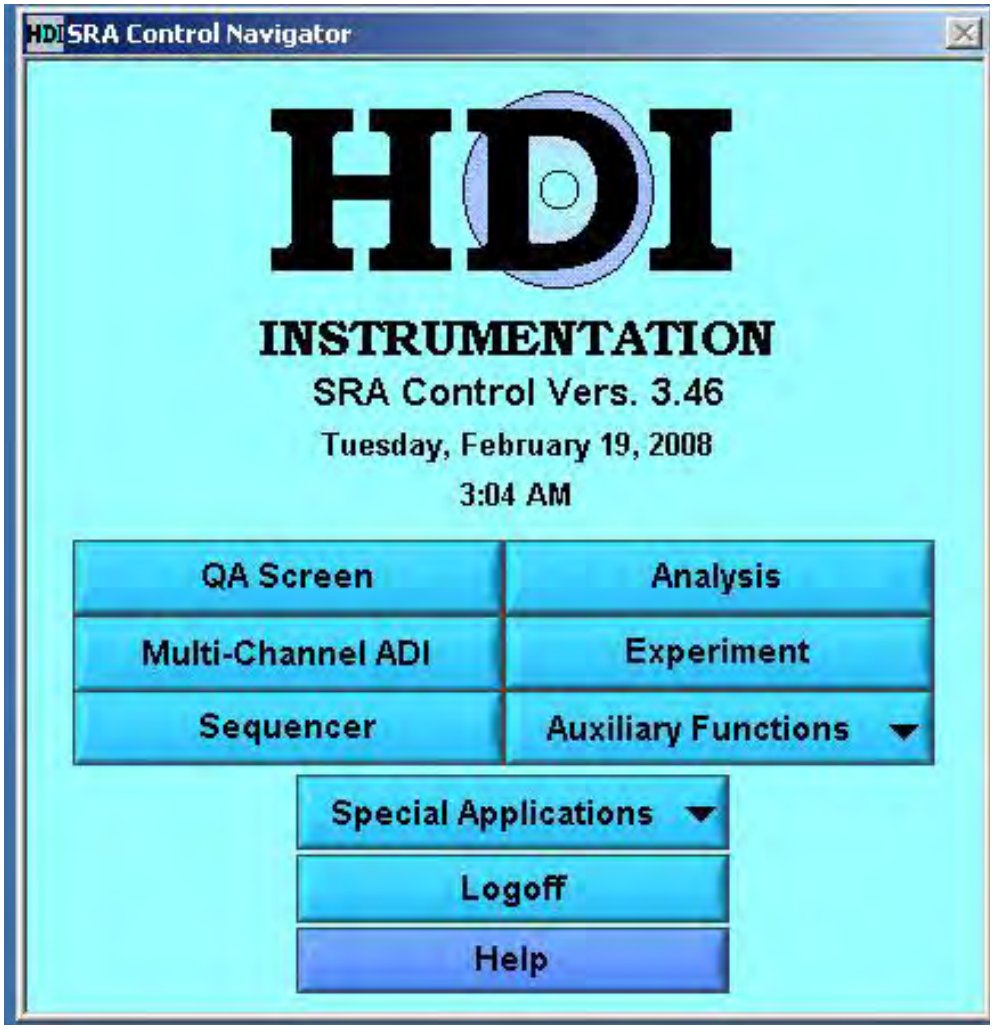
Login Menu:



After starting the software, or after the previous user has logged out, you must select a name and enter a password to logon to the SRA Control software.

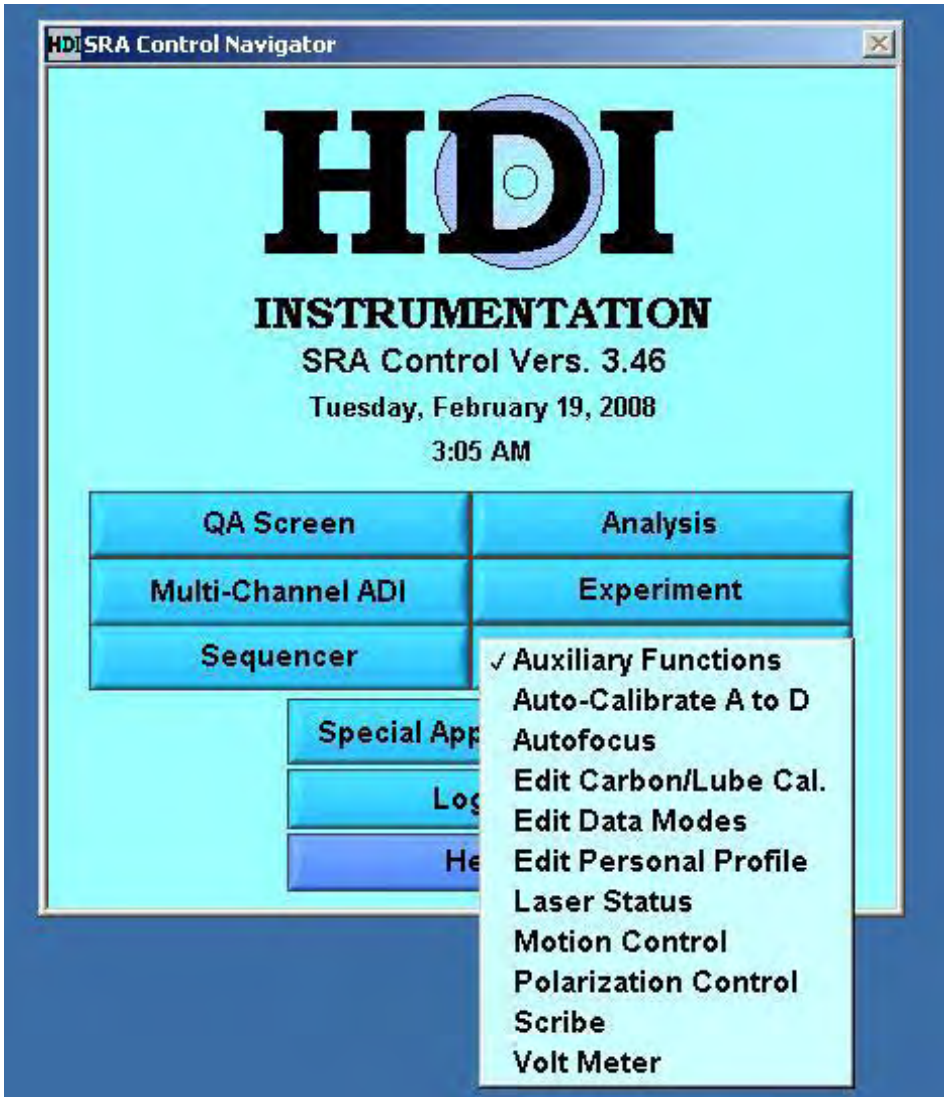
Please select your username and type your password into the fields provided and then press the logon button.

Main Menu:

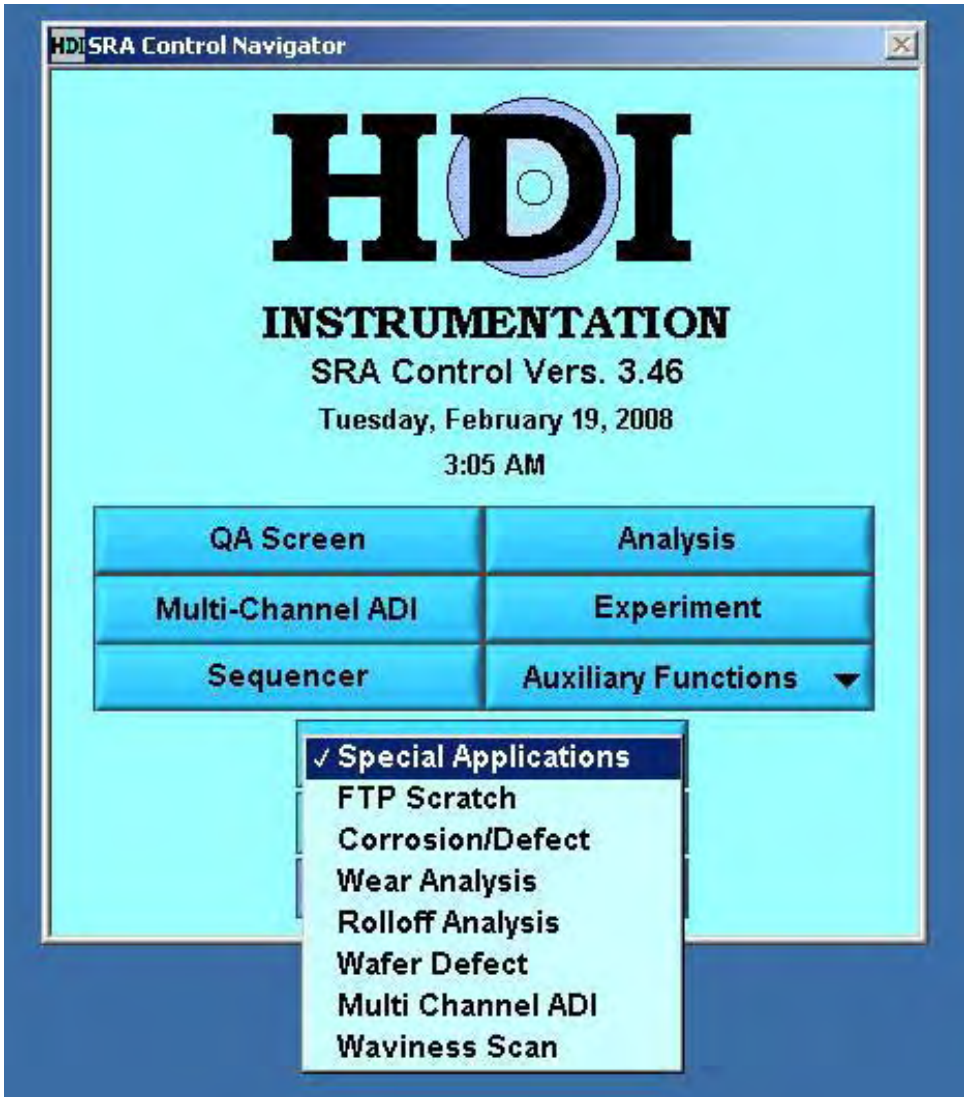


The SRA Control Navigator window is the primary method for switching between the software's major screens. You may also use this screen to logoff the system.

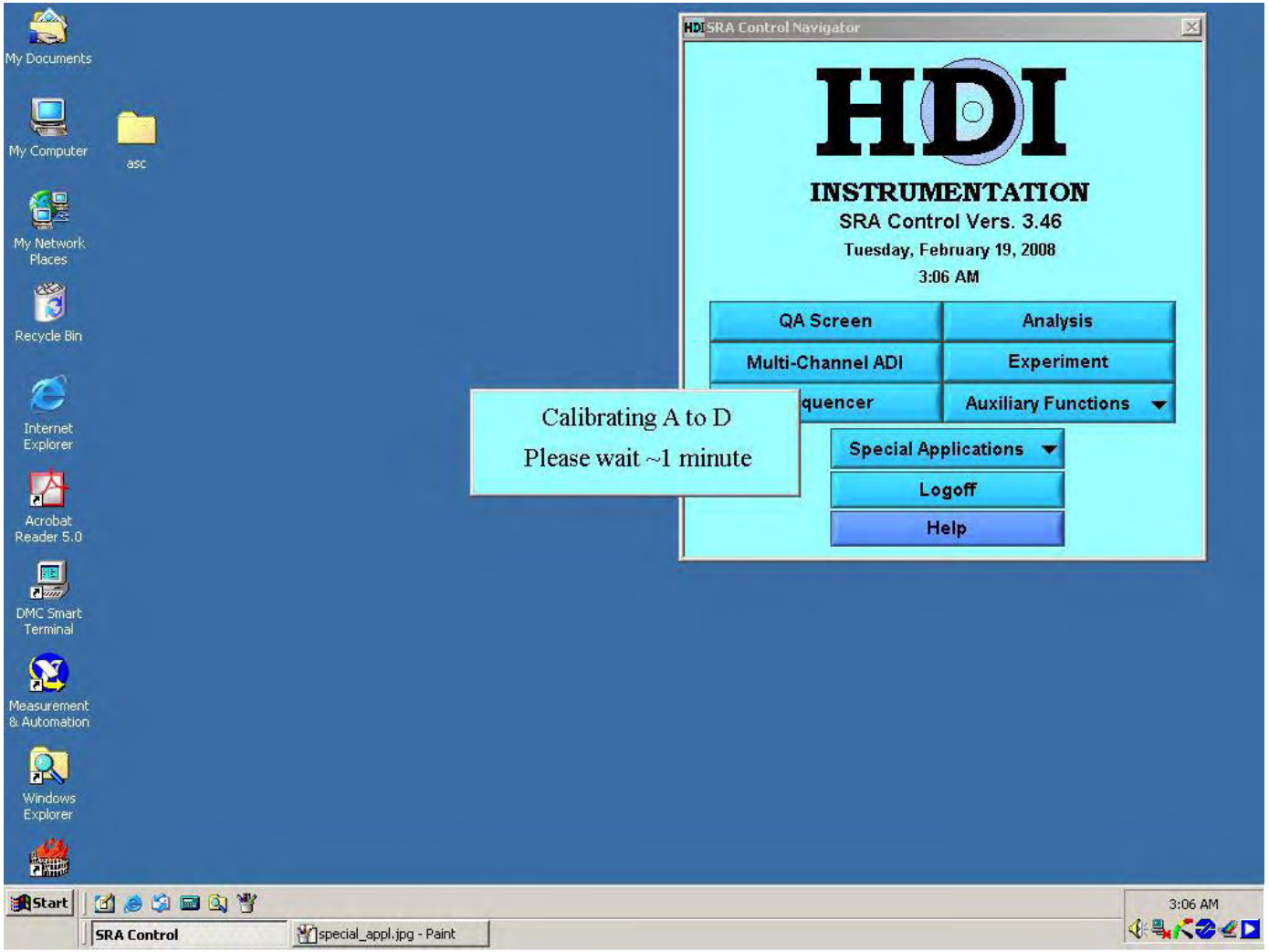
Listing of the Auxiliary Functions:



Listing of the Special Applications:

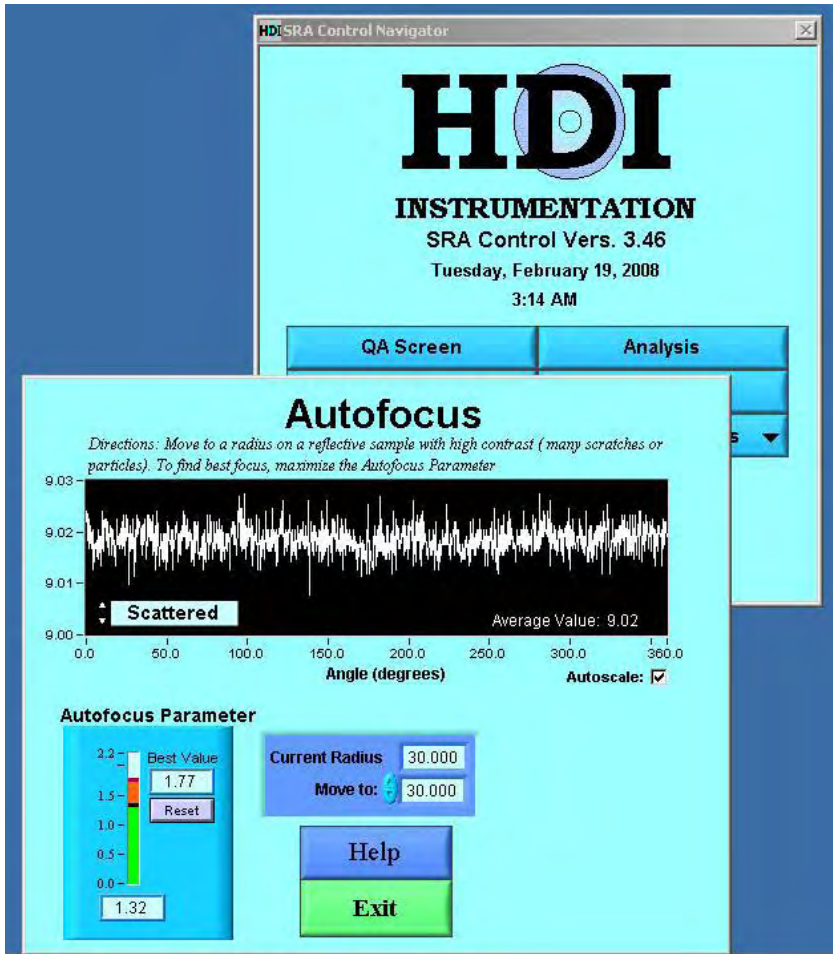


Auxiliary Functions:
Auto Calibrate:



Auto-Calibrate A to D calibrates the Analog to Digital system.

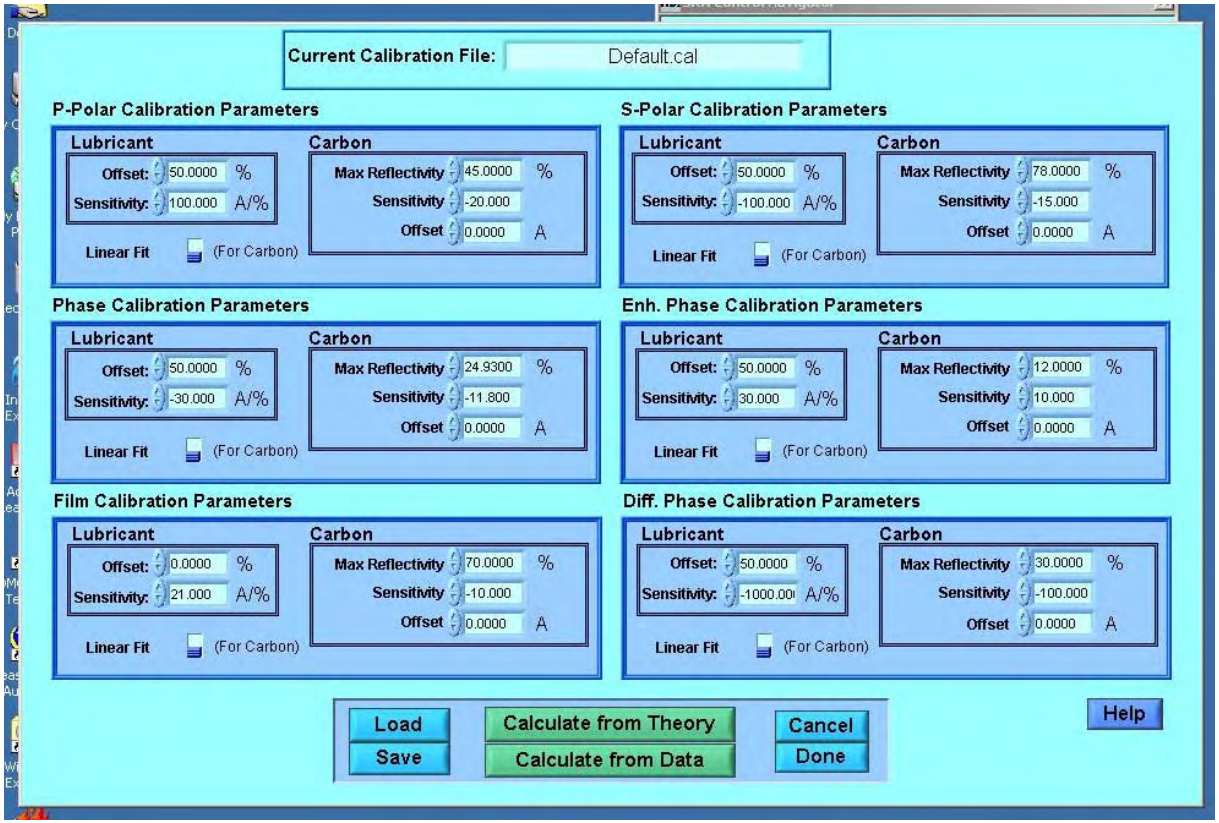
Auto Focus:



The Auto Focus allows the user to manually adjust the positioning of the analyzer, resulting in an accurate focus for the current disk platter. Use this window to focus the optics of the SRA system. Select the detector to display by using the control in the lower left corner of the graph. Adjust the micrometer on the optics by twisting it clockwise, then counterclockwise until a maximum value is reached in the Autofocus Parameter window

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Edit Carbon / Lube Calibration:

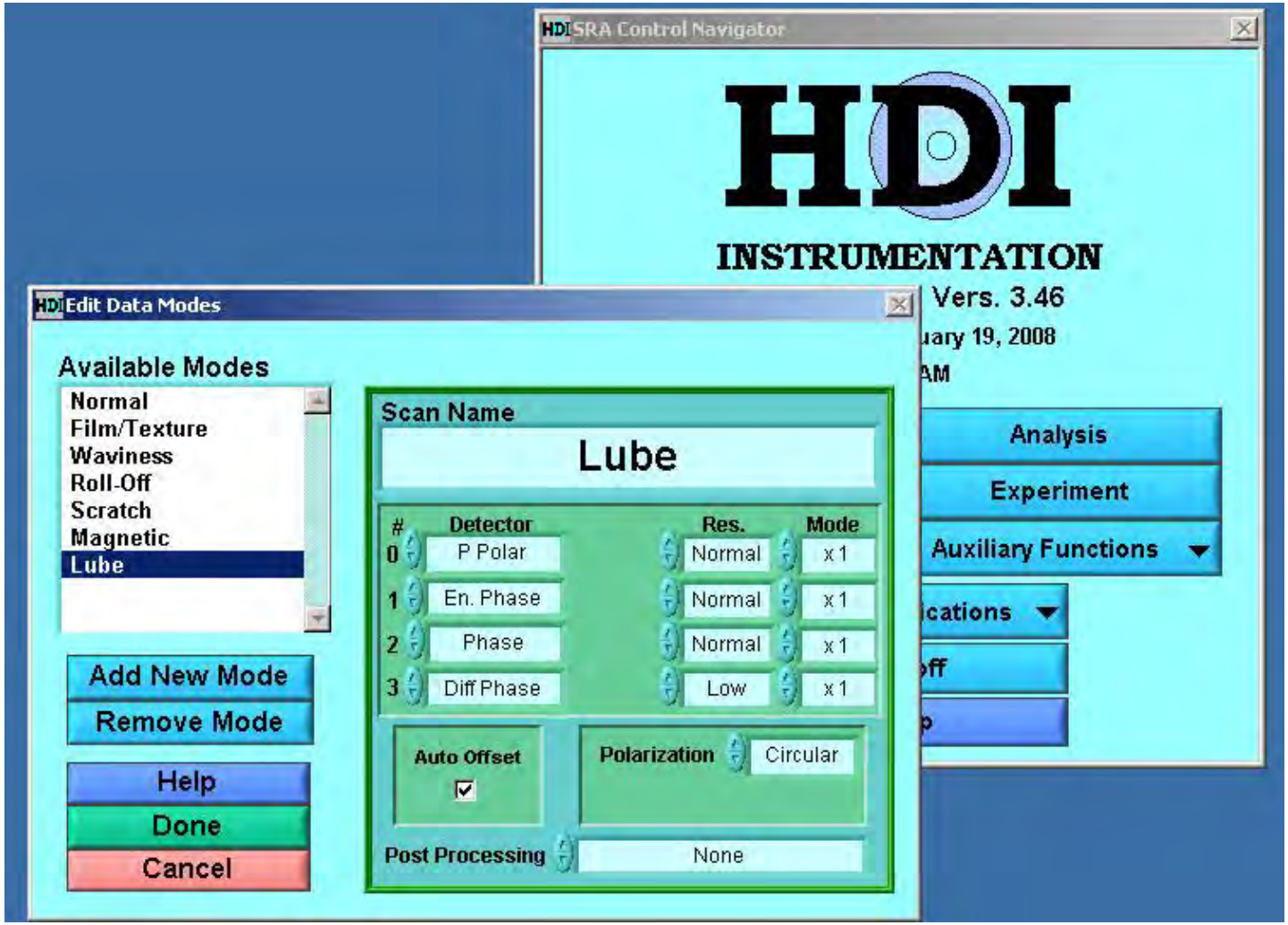


The Edit Calibration window is used to set the calibration values used by the SRA program to transform reflectivity values into either Angstrom of Lubricant or Angstrom of Carbon.

There are 3 sets of calibration values, one for P Polar images, one for S Polar images, and one for Phase Contrast Images. Each set contains 2 Lubricant calibration values, and 3 Carbon calibration values.

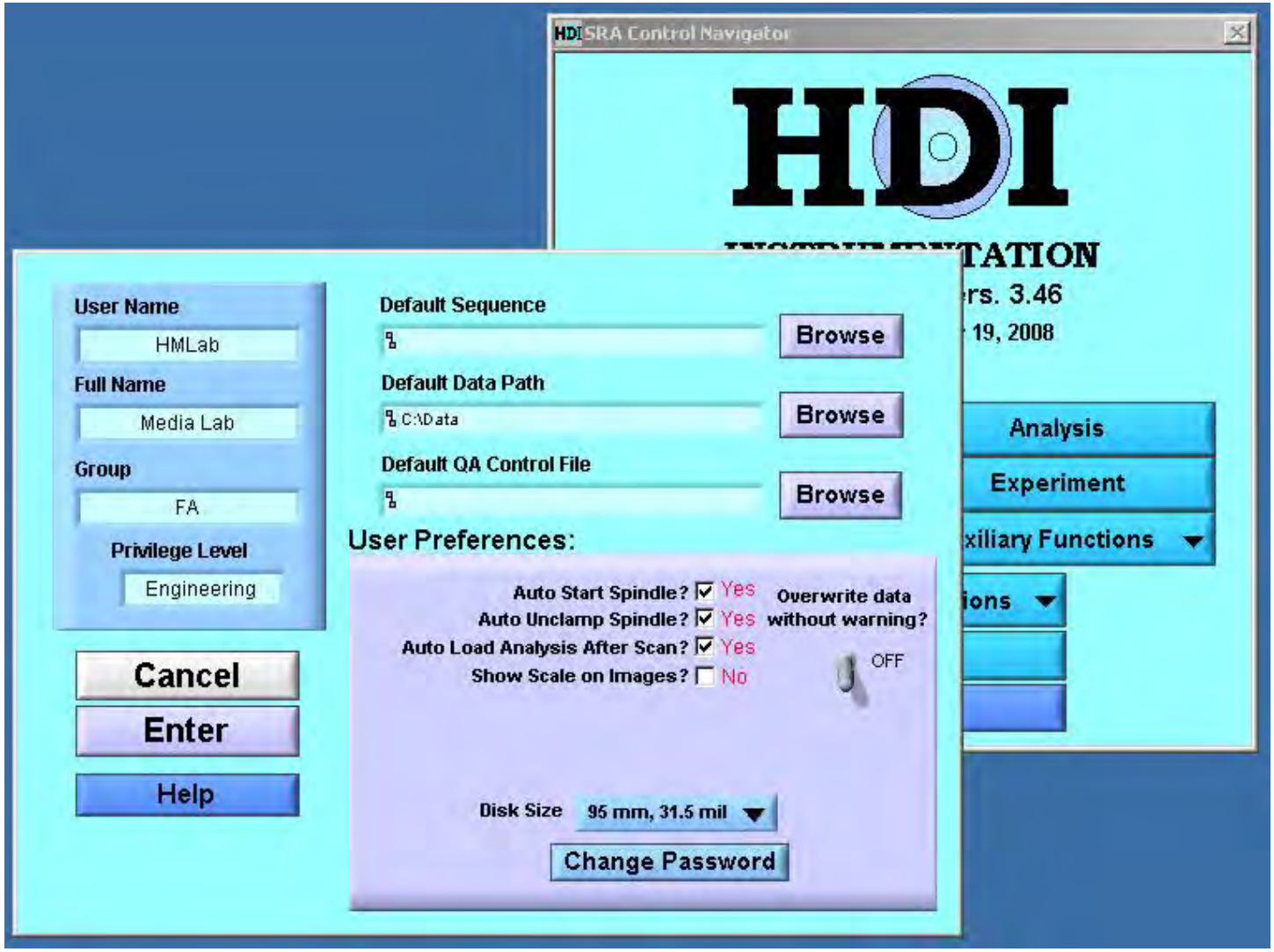
Typically these values are calculated by the software in the Calculate from Data or Calculate from Theory windows, however direct changes to the values can be made within this screen by selecting and changing the value of interest.

Edit Data Modes:



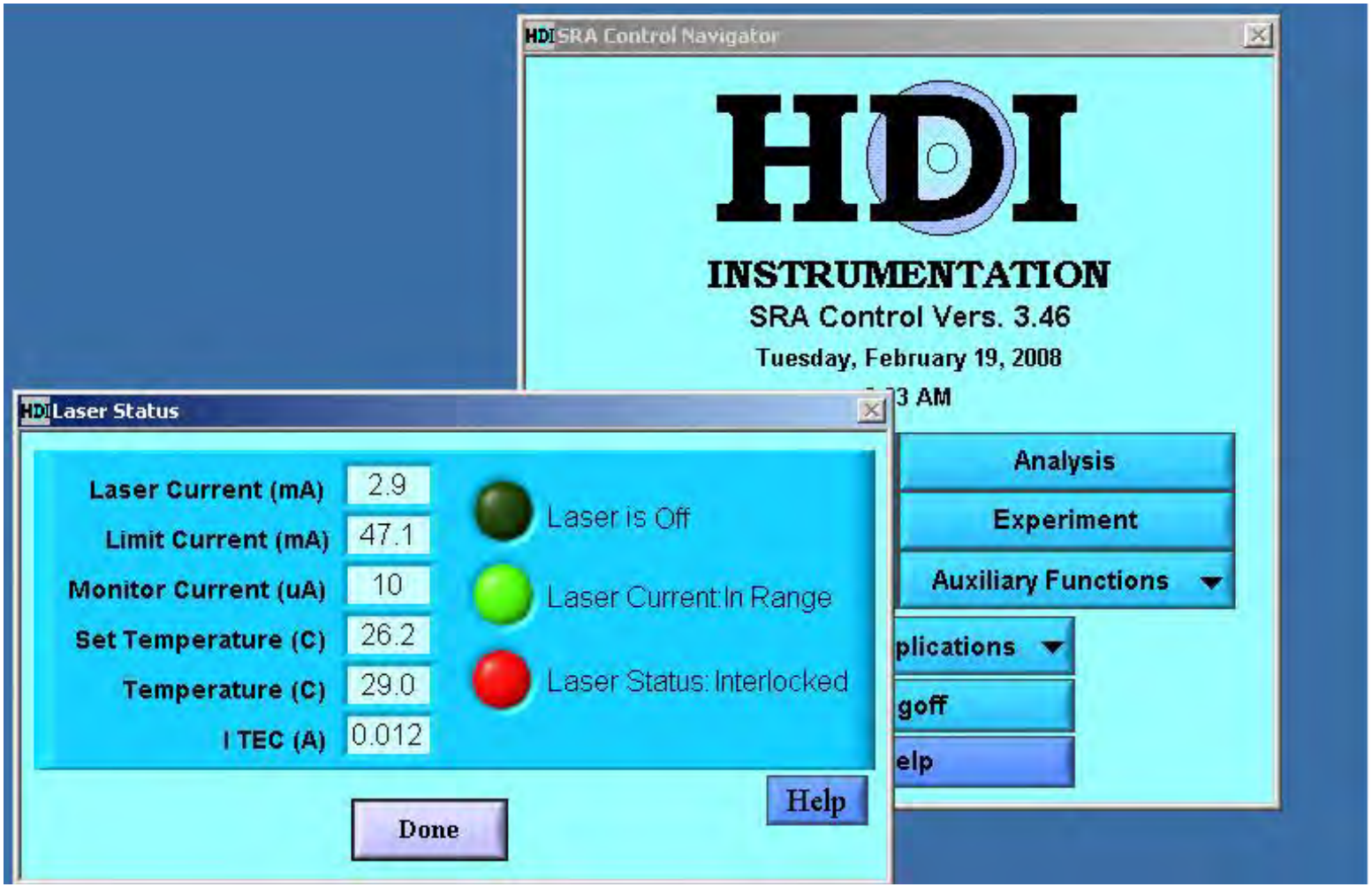
Use the Edit Data Modes to add new data modes or to edit/remove existing data modes. Once configured, the data modes will be visible in the experiment screen and can be selected directly from there.

Personal Data Menu:



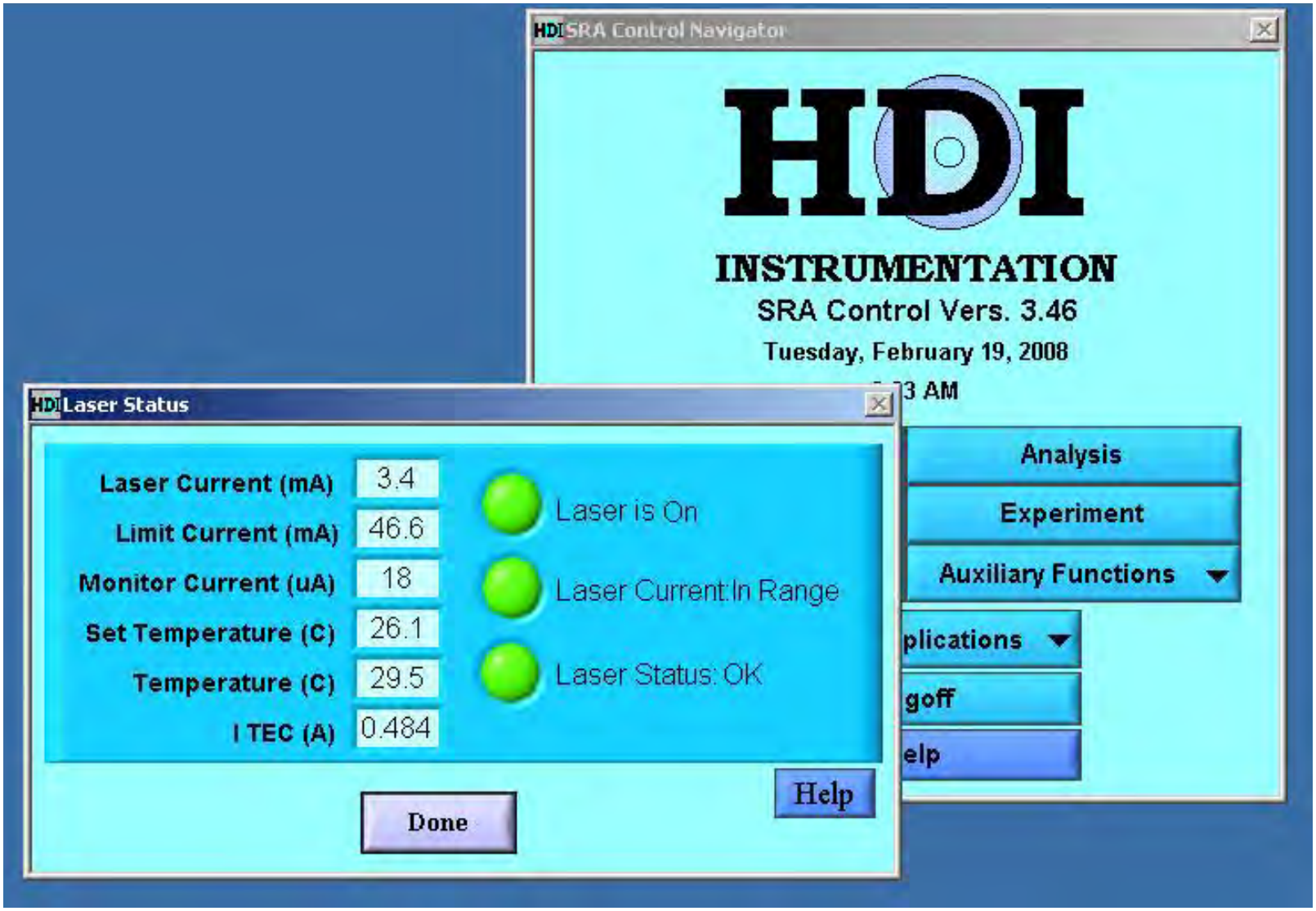
The Personal Data Menu allows the changing of preferences, default data paths, and personal data.

Laser Status:

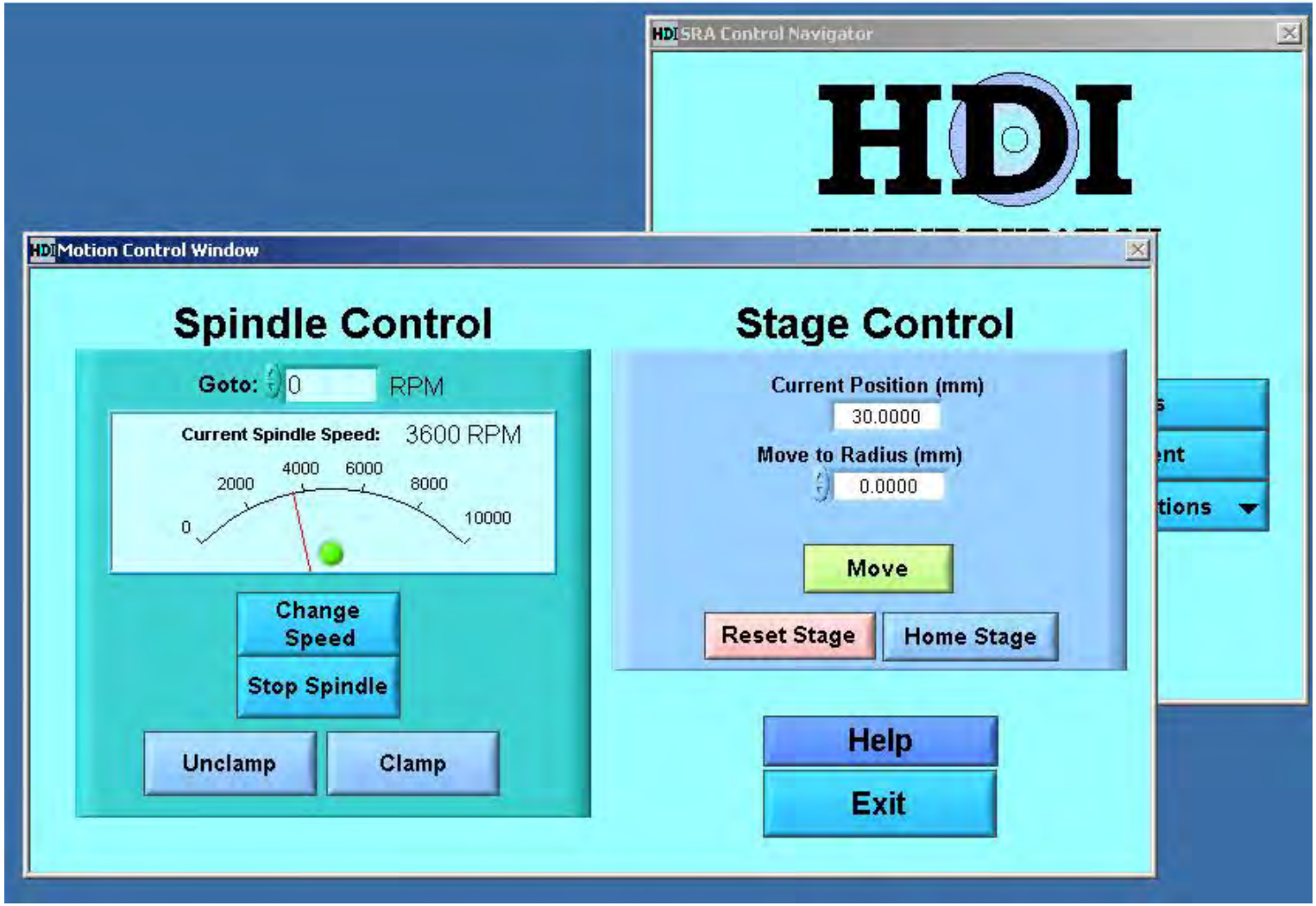


This window provides the user with the current laser status. The three LED indicators on the right show whether the laser is on, if the current is in range, and if the interlocks are ok. The indicators on the left show the laser current, current limits, and laser temperature information.

Laser Status Continued:



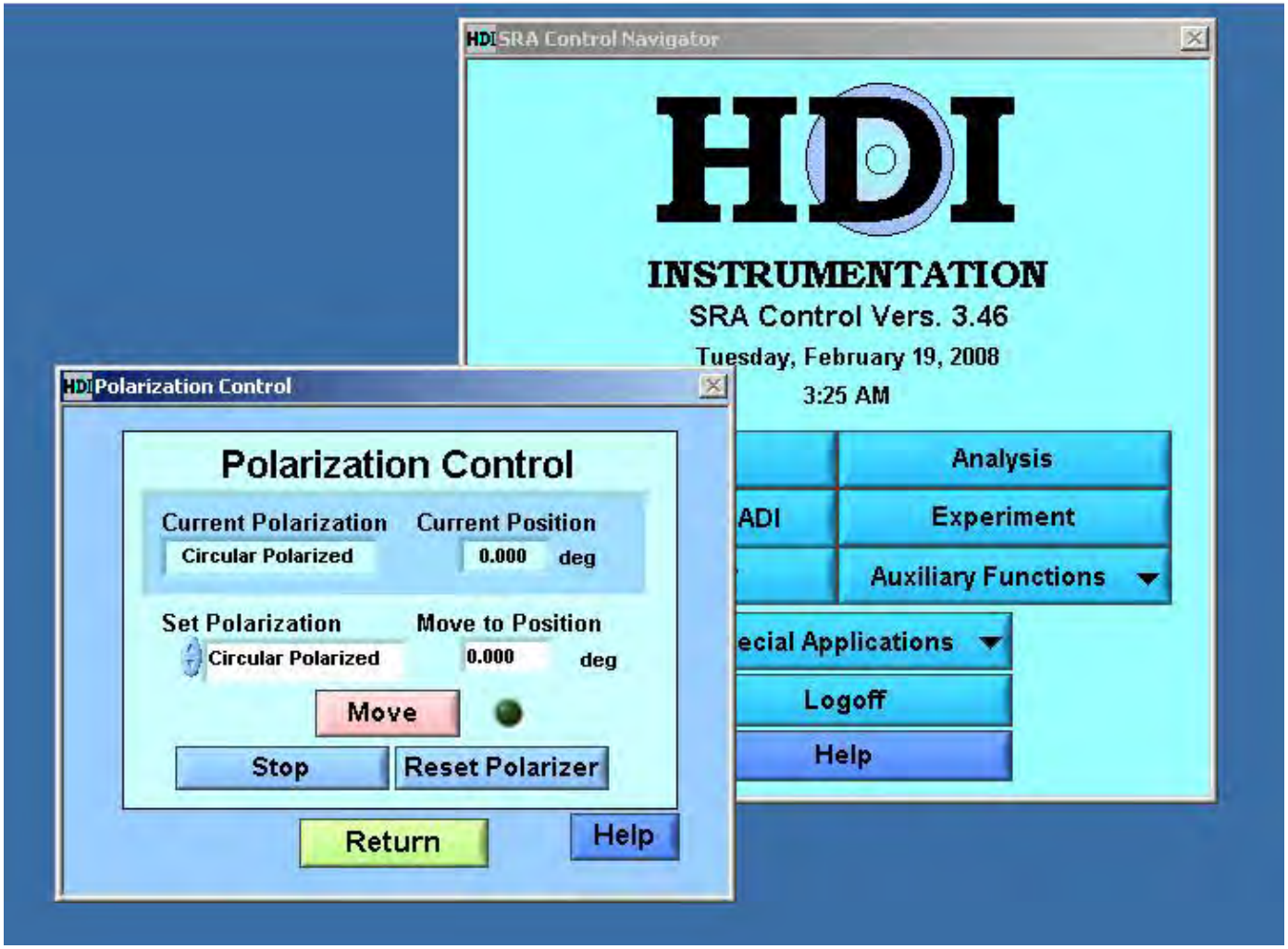
Motion control:



The Motion Control Window allows manual control over the Disk Platter in the Disk Surface Analyzer.

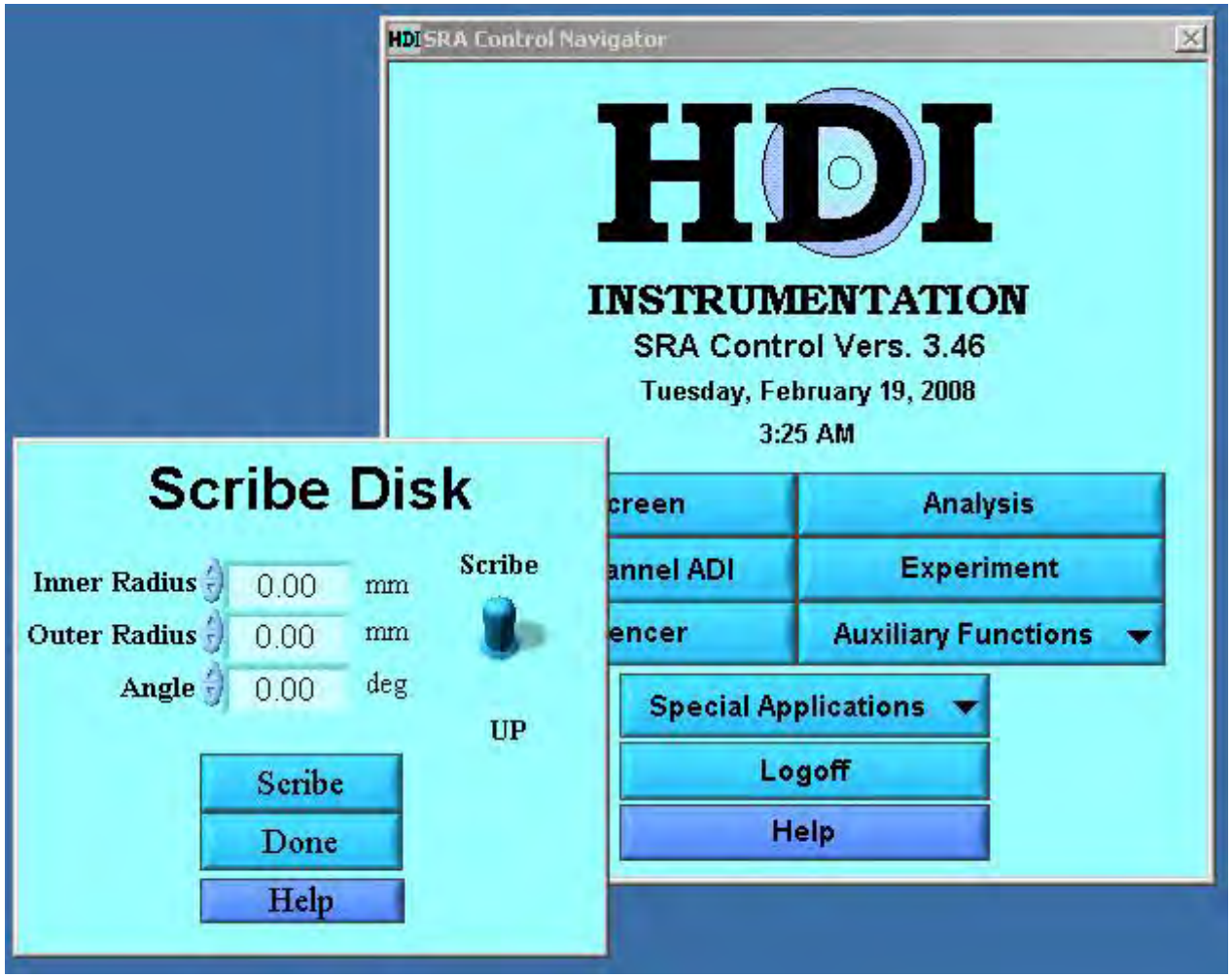
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Polarization control:



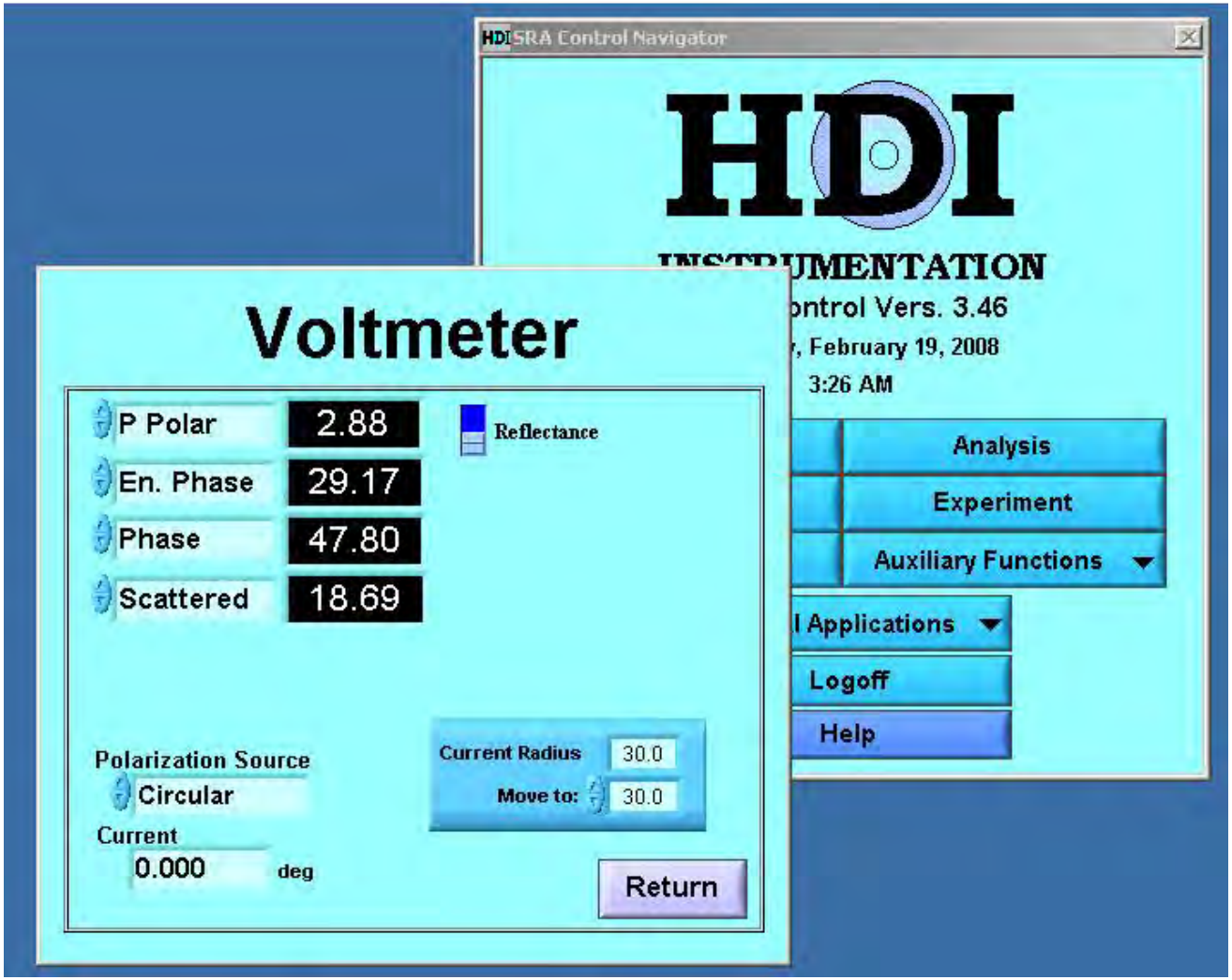
The Polarization Control window gives the user manual control of the polarizer rotation stage. Use this window to reset the polarizer, move the polarizer to a specific position, or set the polarization to a specific type.

Scribe:



The Scribe function provides a mode to scribe the disk for the purpose of marking a defect so that it can be identified more easily in the future. Enter the inner and outer radius along with the angle that you would like to scribe and press the scribe button. The scribe itself has a manual height adjust, allowing the mark to be shallower or deeper as the need arises.

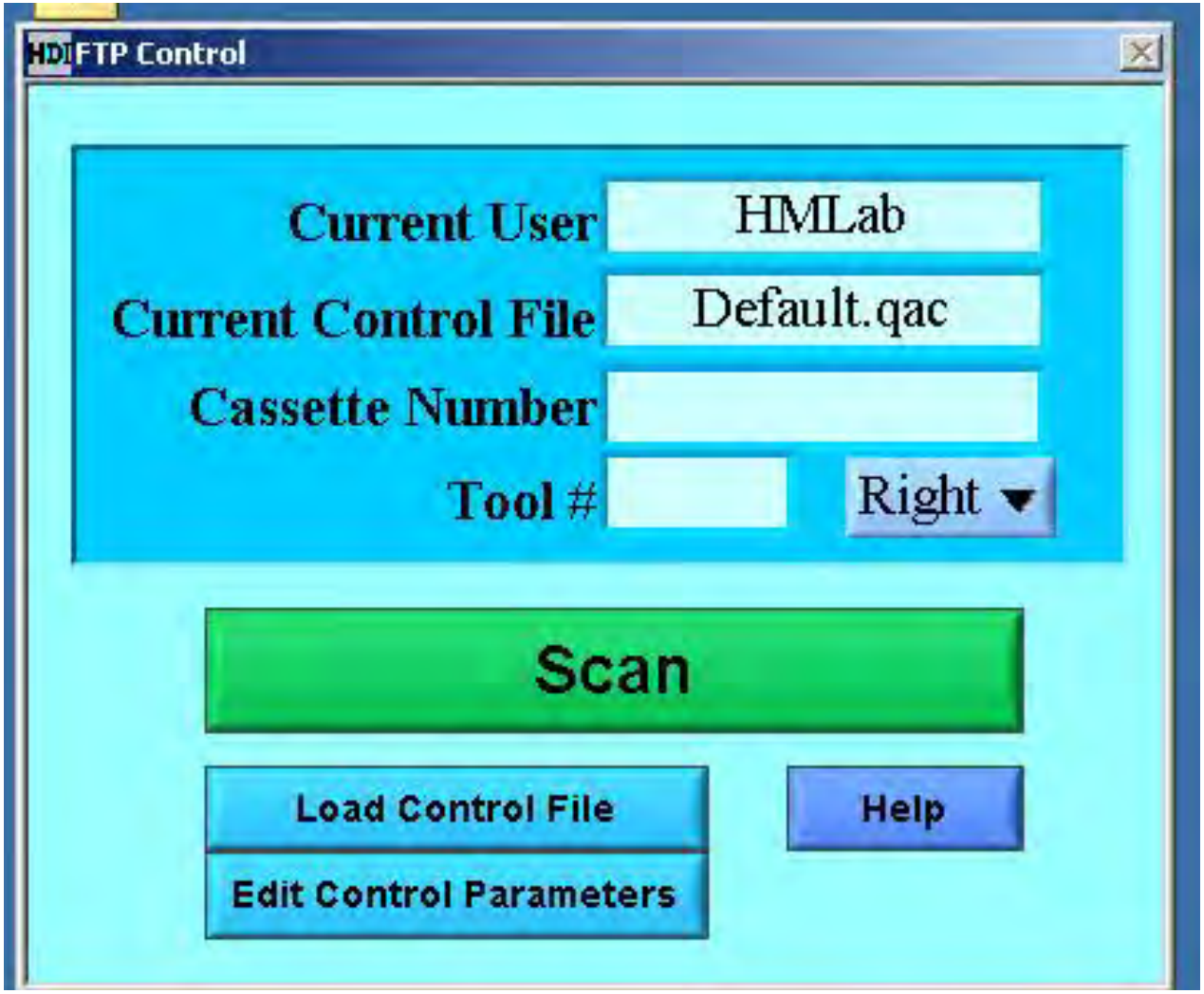
Voltmeter:



This window provides the user with a method to measure the output voltage or reflectivity value for the 4 selected detectors. In some systems, the detectors can be changed using the controls.

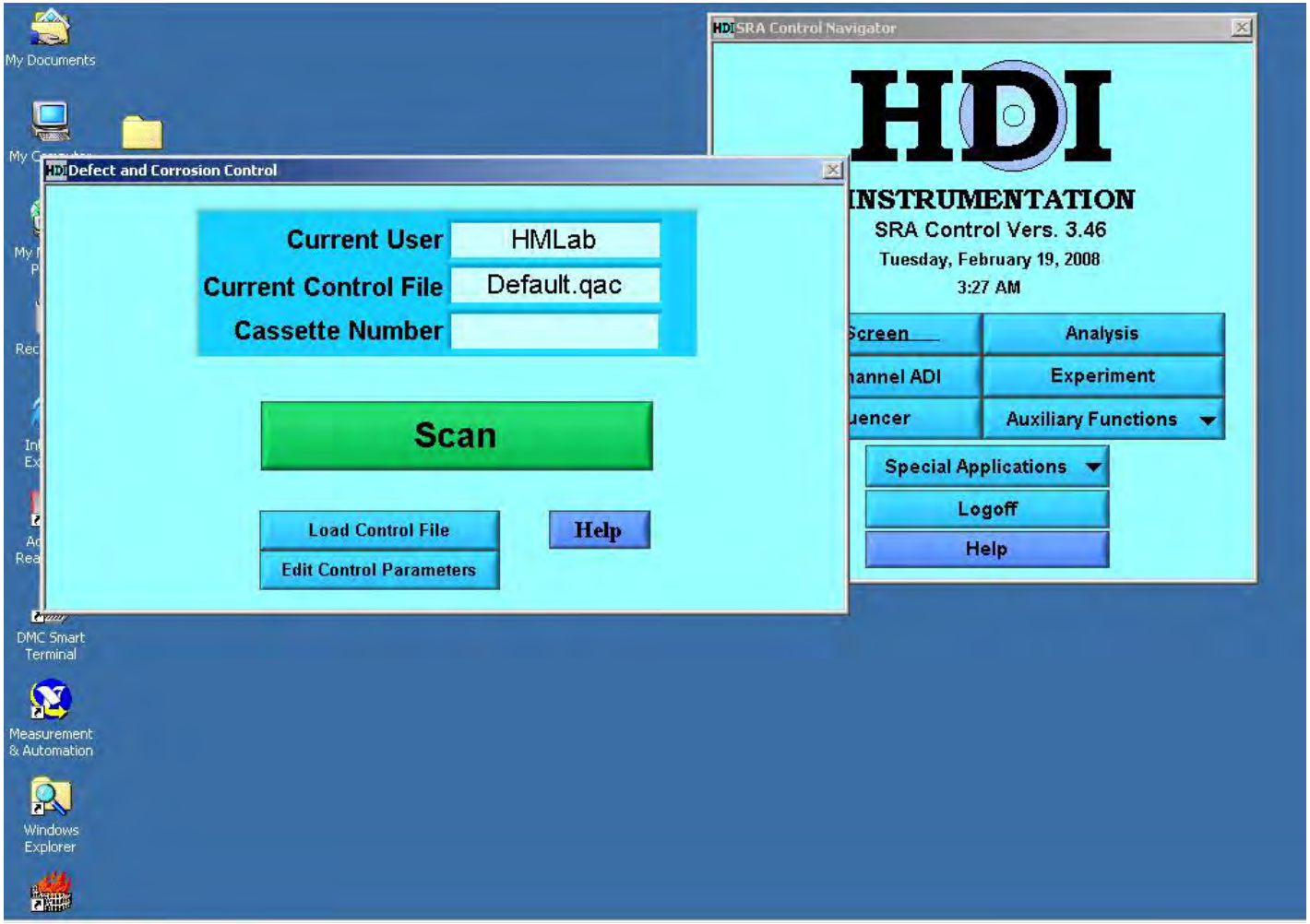
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Special Functions:
FTP Control Scratch:



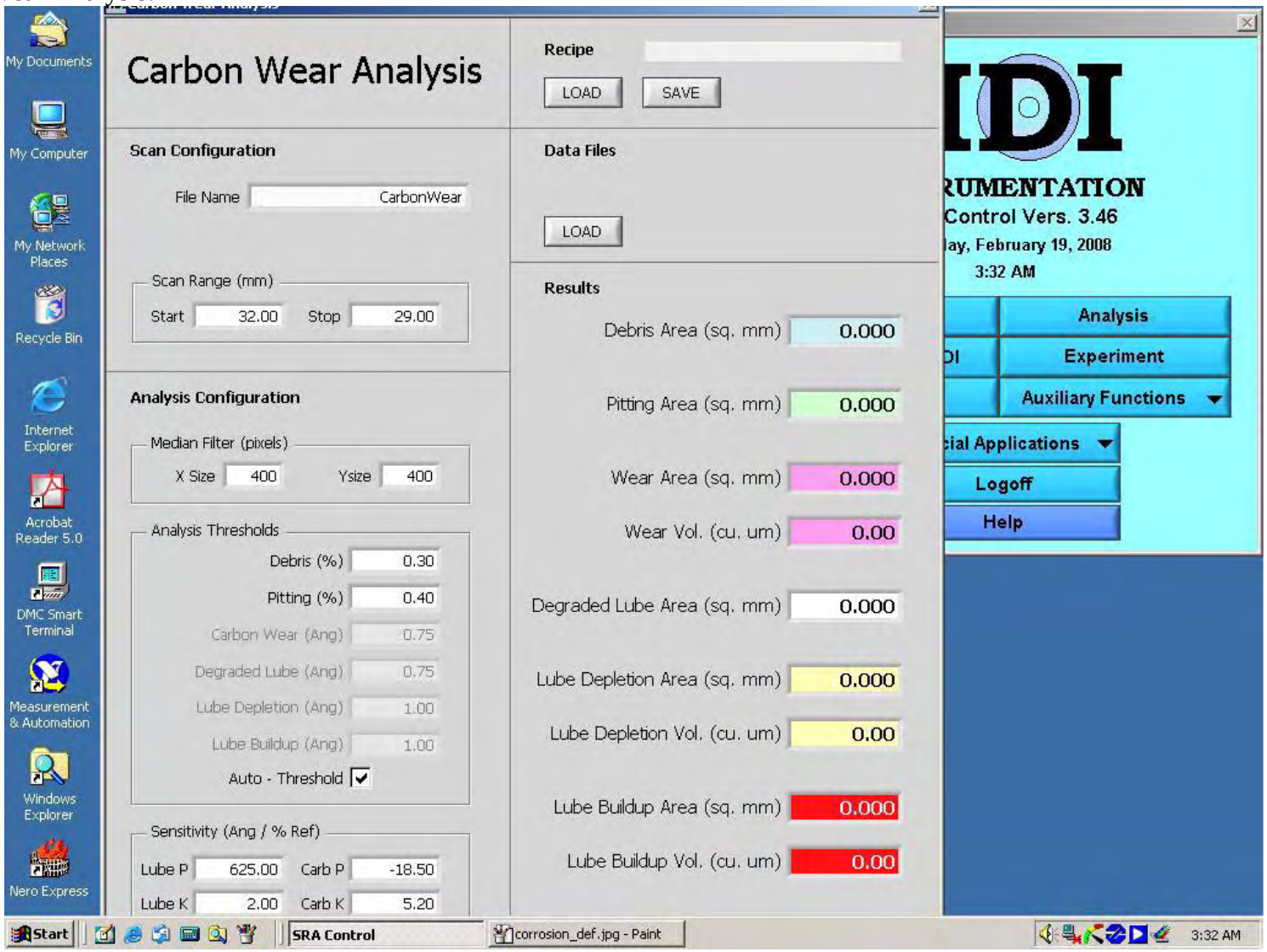
The FTP Screen is used to measure scratches during the carbon buff or FTP step of thin film disk processing.

Corrosion Defect:

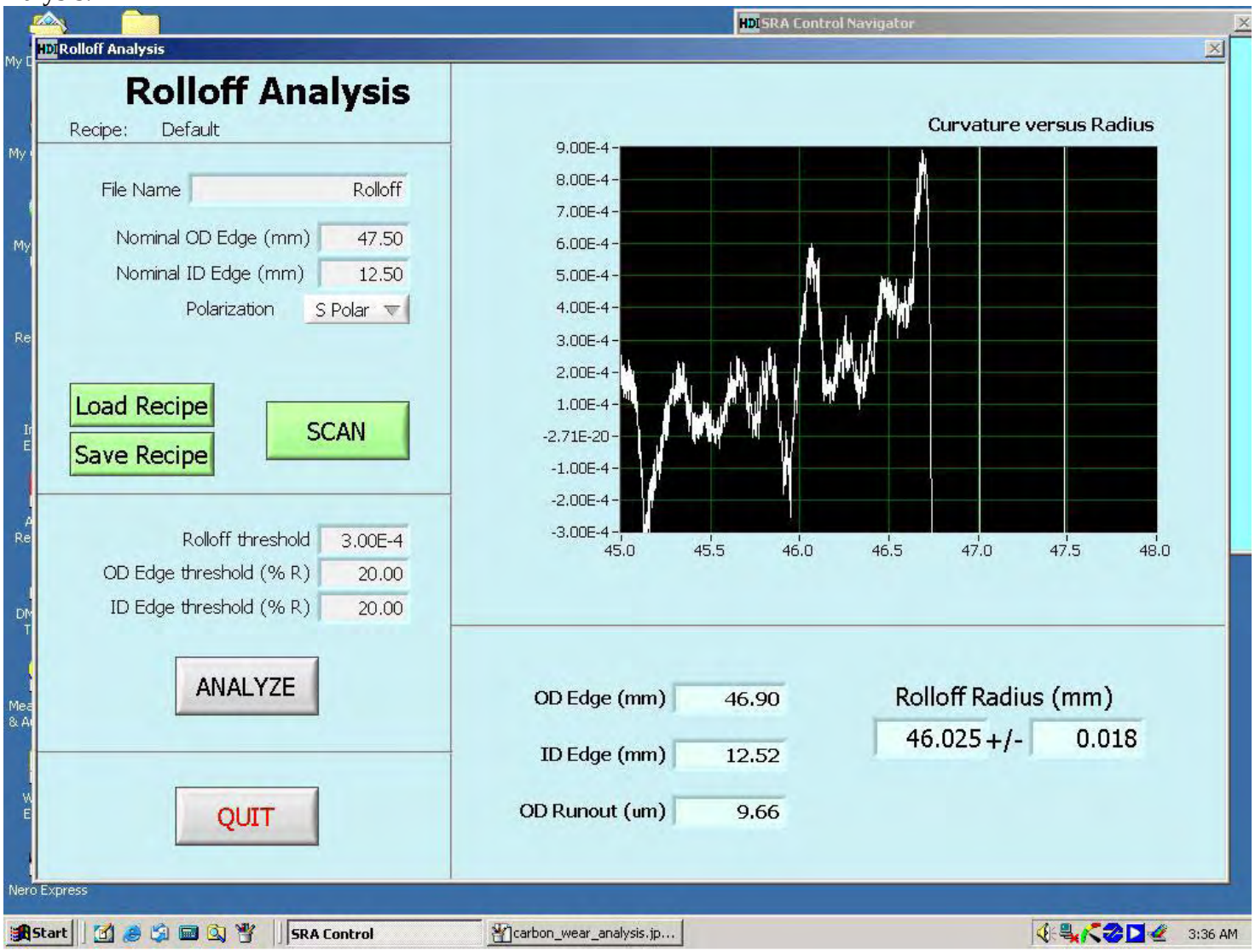


The Defect and Corrosion Screen is used to measure particles and defects over an entire disk or substrate. The analysis is performed automatically via a pre-written recipe. This recipe can be written to look for a variety of features such as corrosion product, particles, debris, scratches, pits, bumps, droplets, and so on.

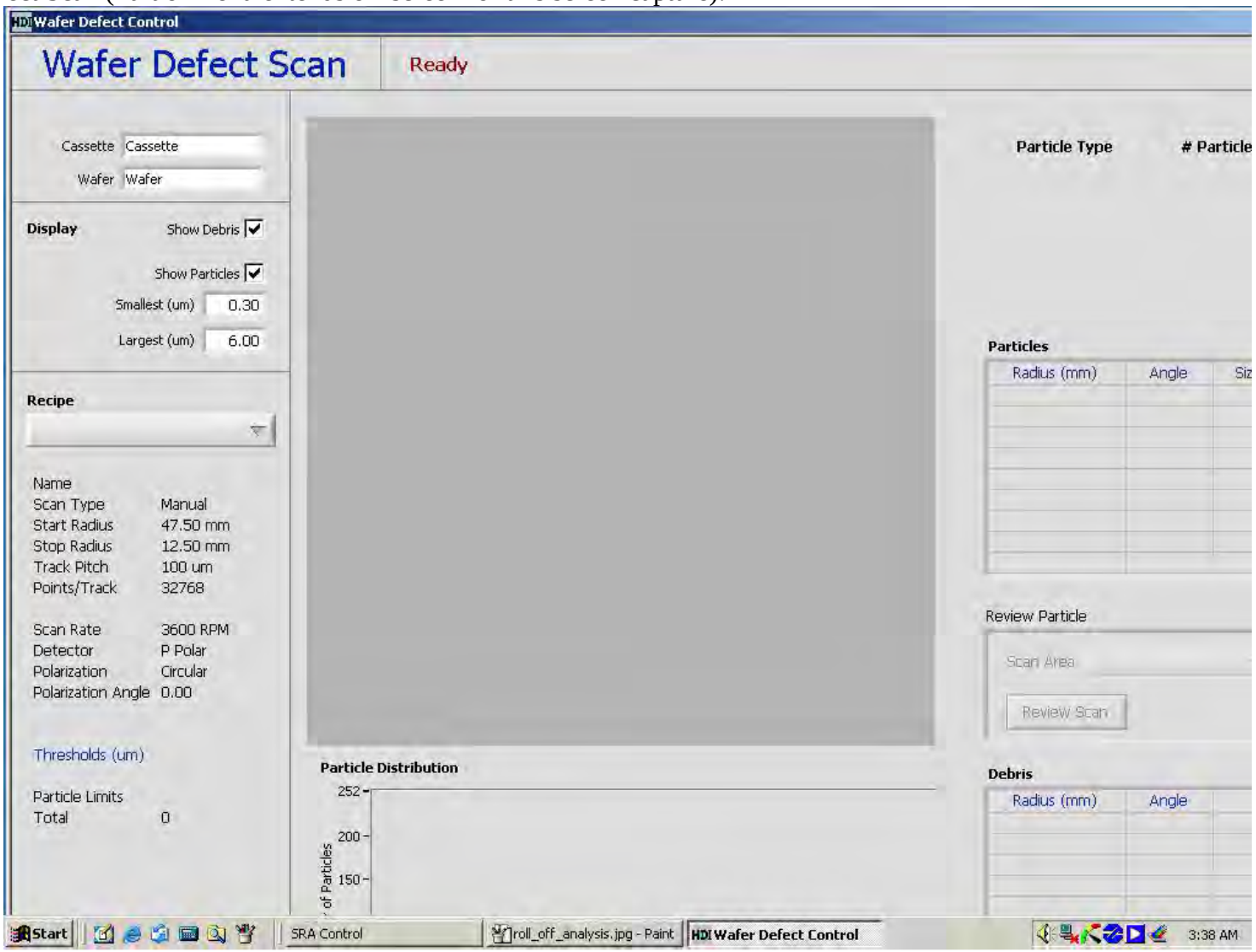
Carbon Wear Analysis:



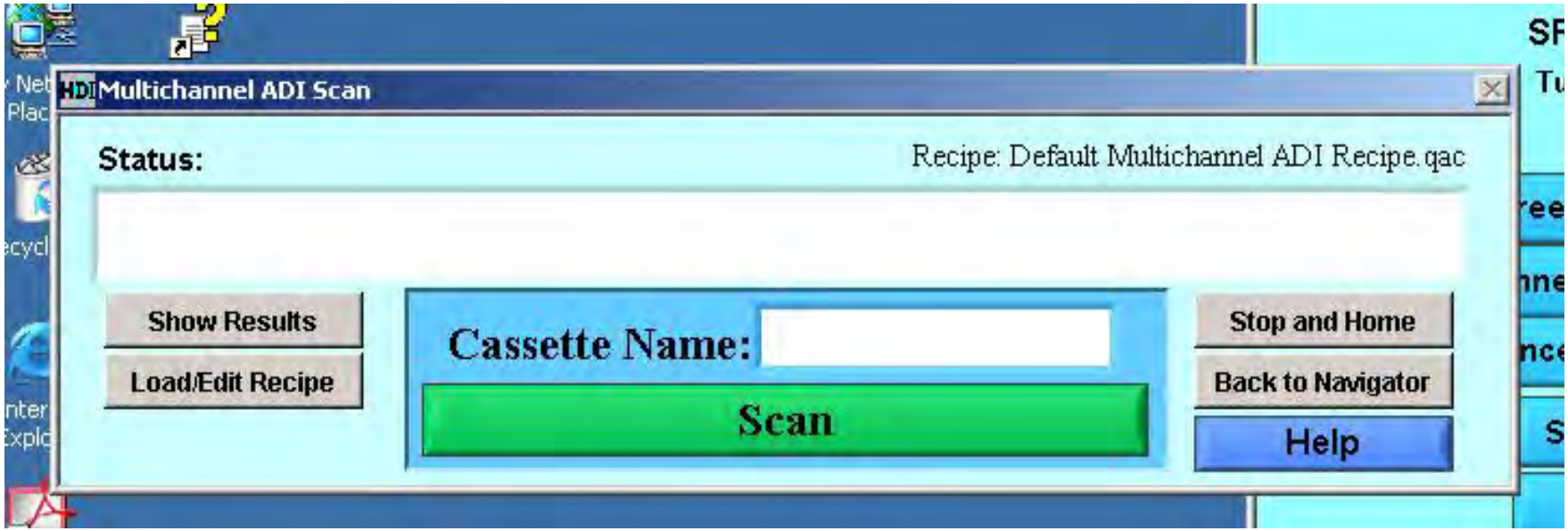
Roll Off Analysis:



Wafer Defect Scan (Part of menu extends off screen for this screen capture):

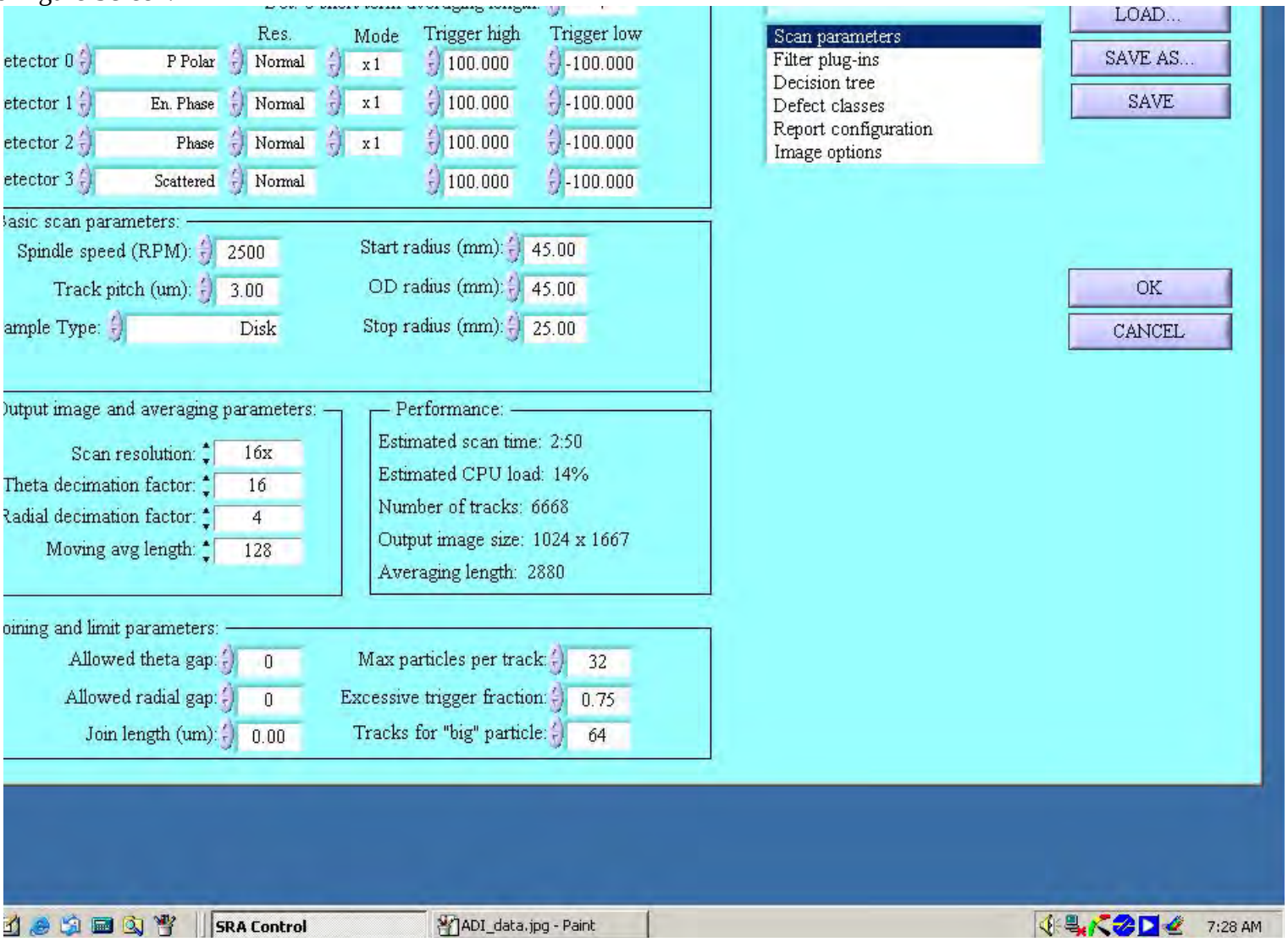


Multichannel ADI:

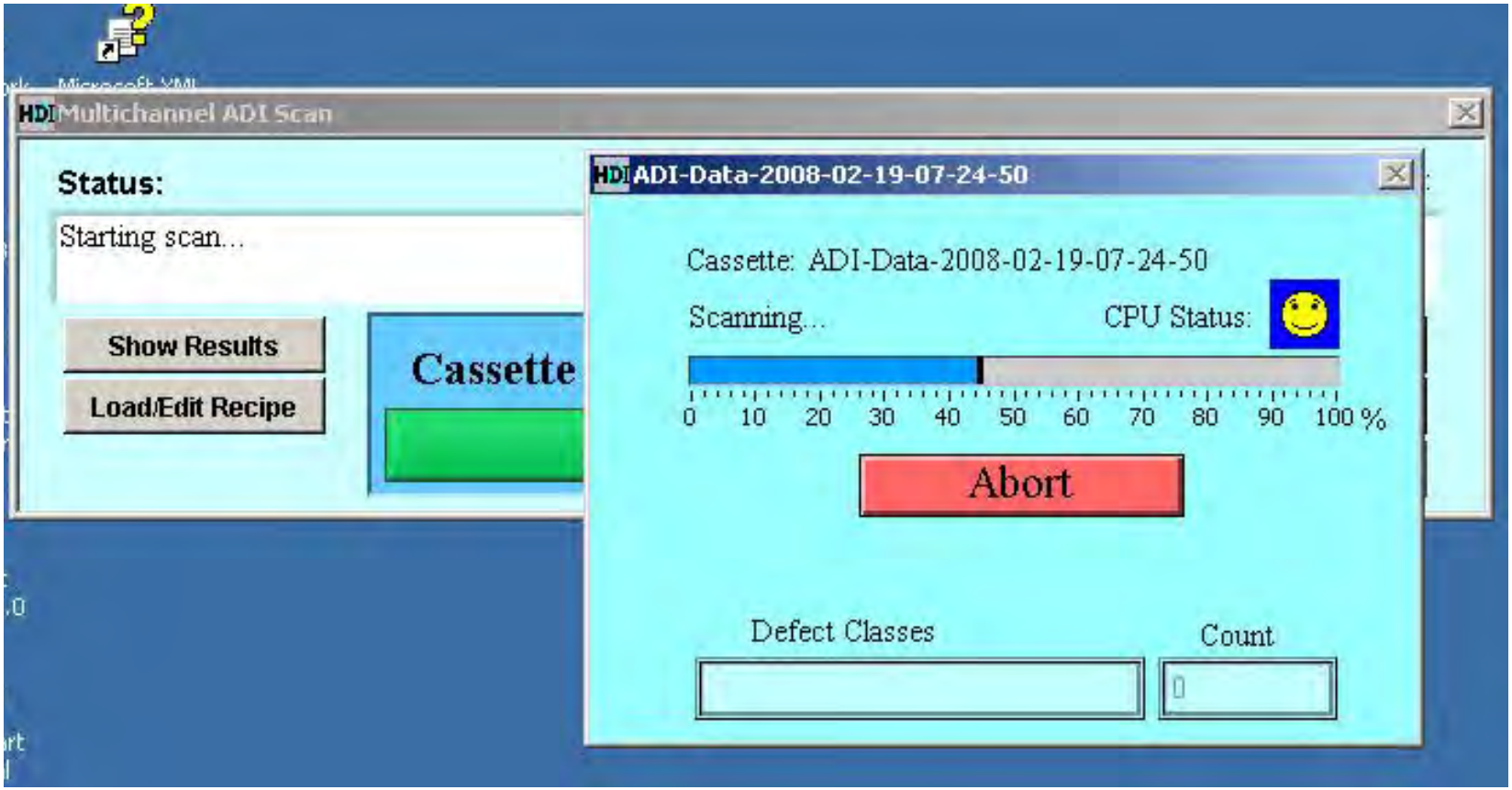


Use this window to scan disks and automatically classify defects using four data channels and a pre-written decision tree.

-ADI Configure Screen:

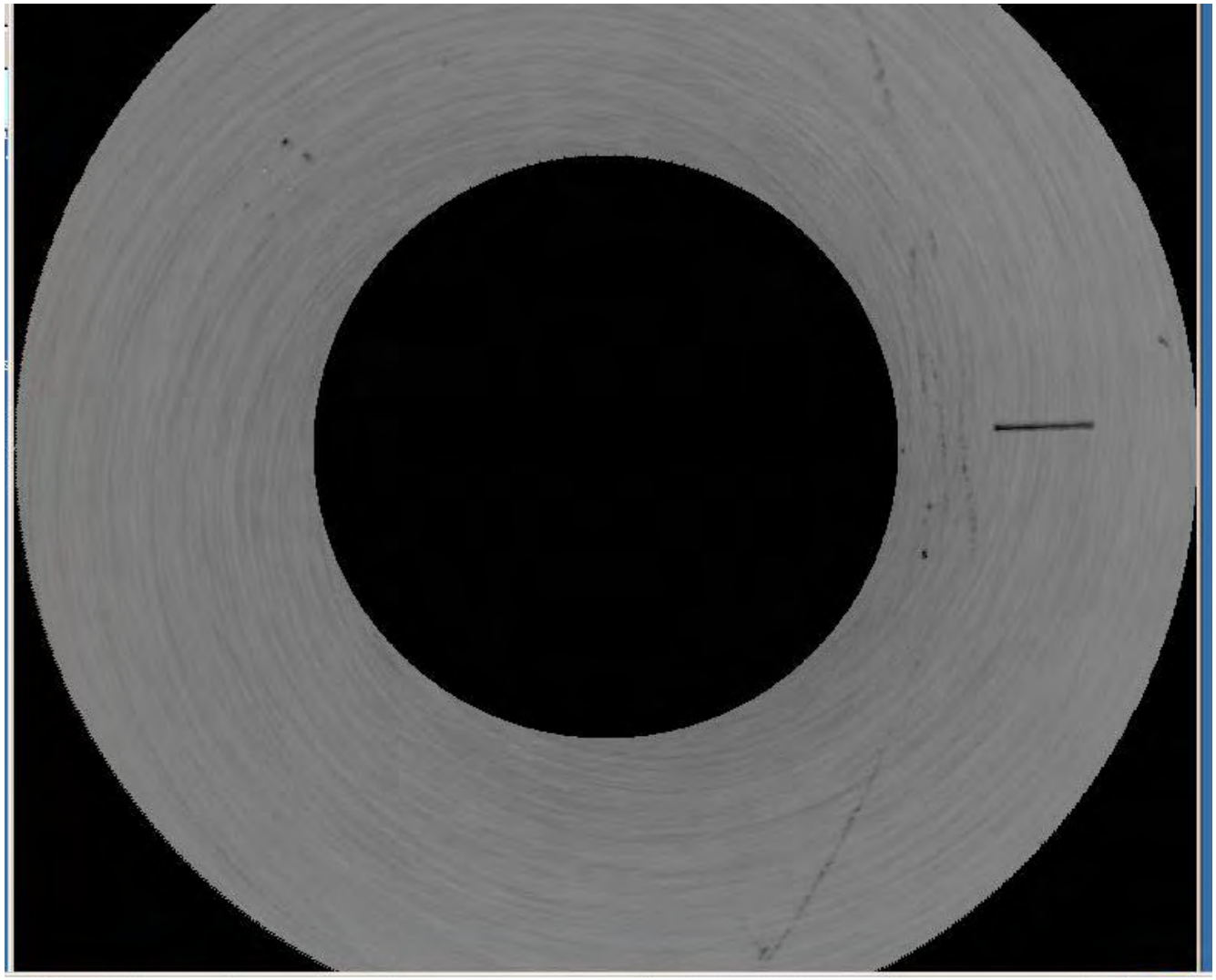


-ADI Scan:



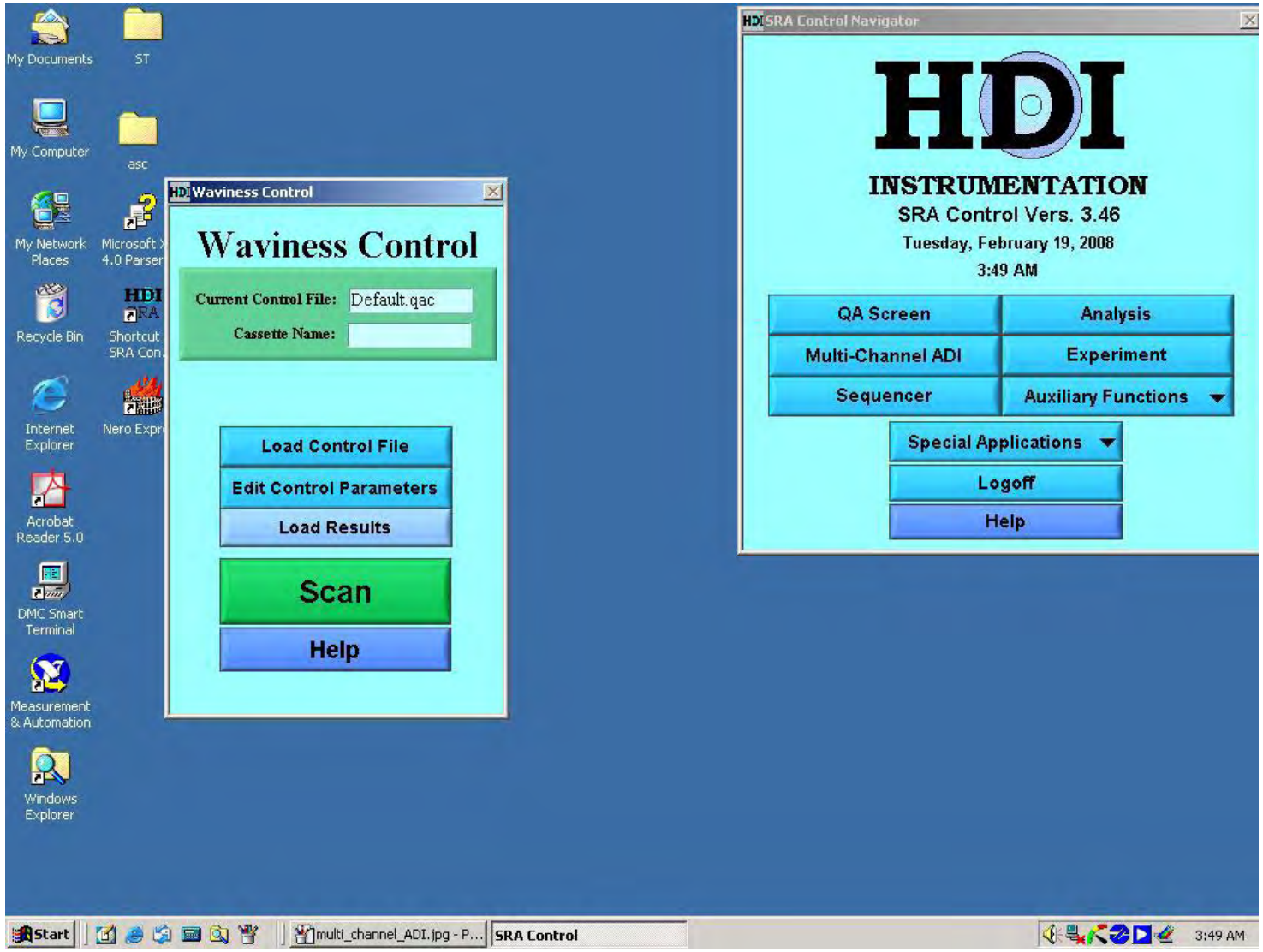
During the ADI scan.

-ADI continued:

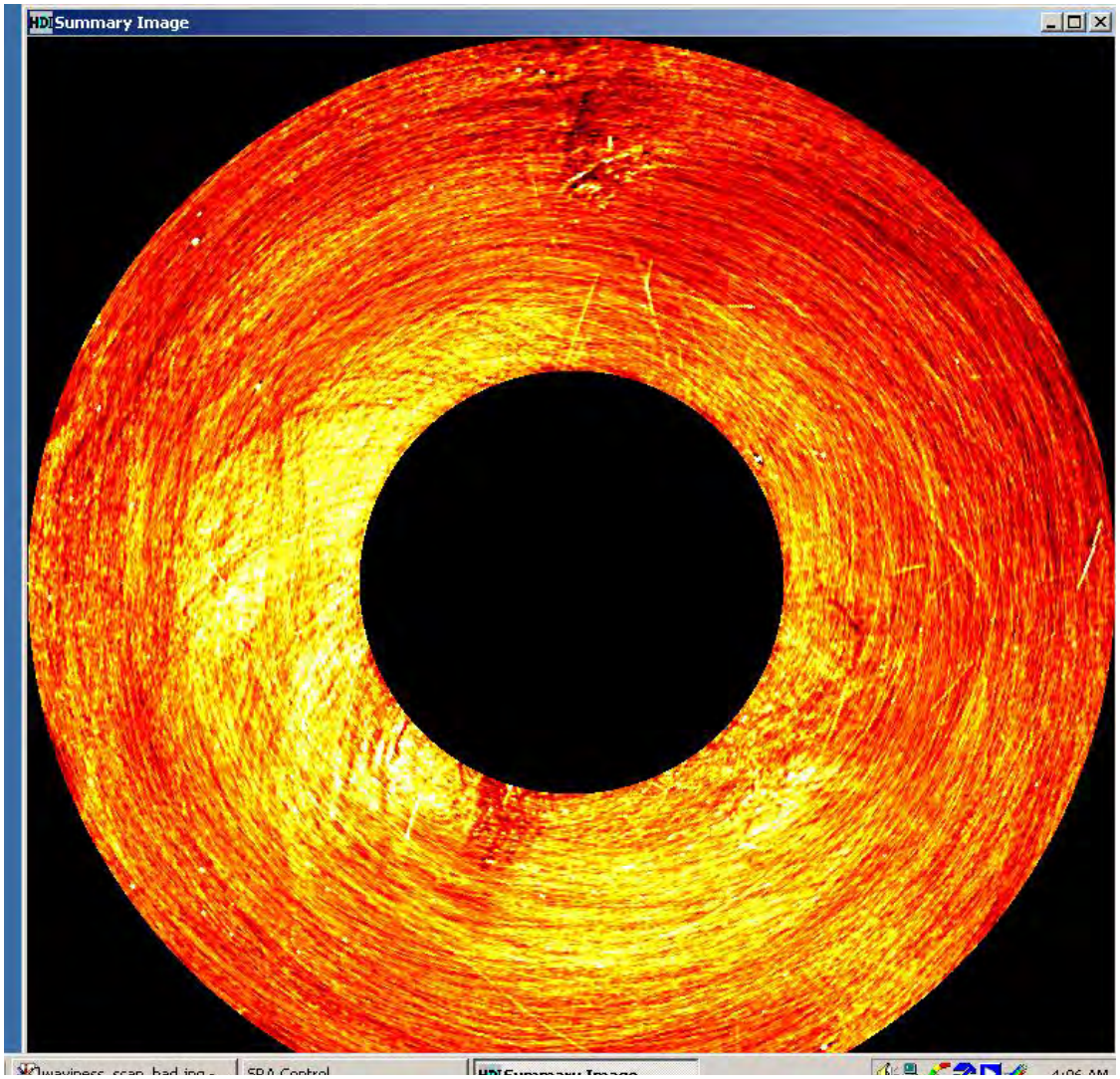


The scanned image results from ADI scanning. The black line is a result of a scribe.

Waviness Scan:

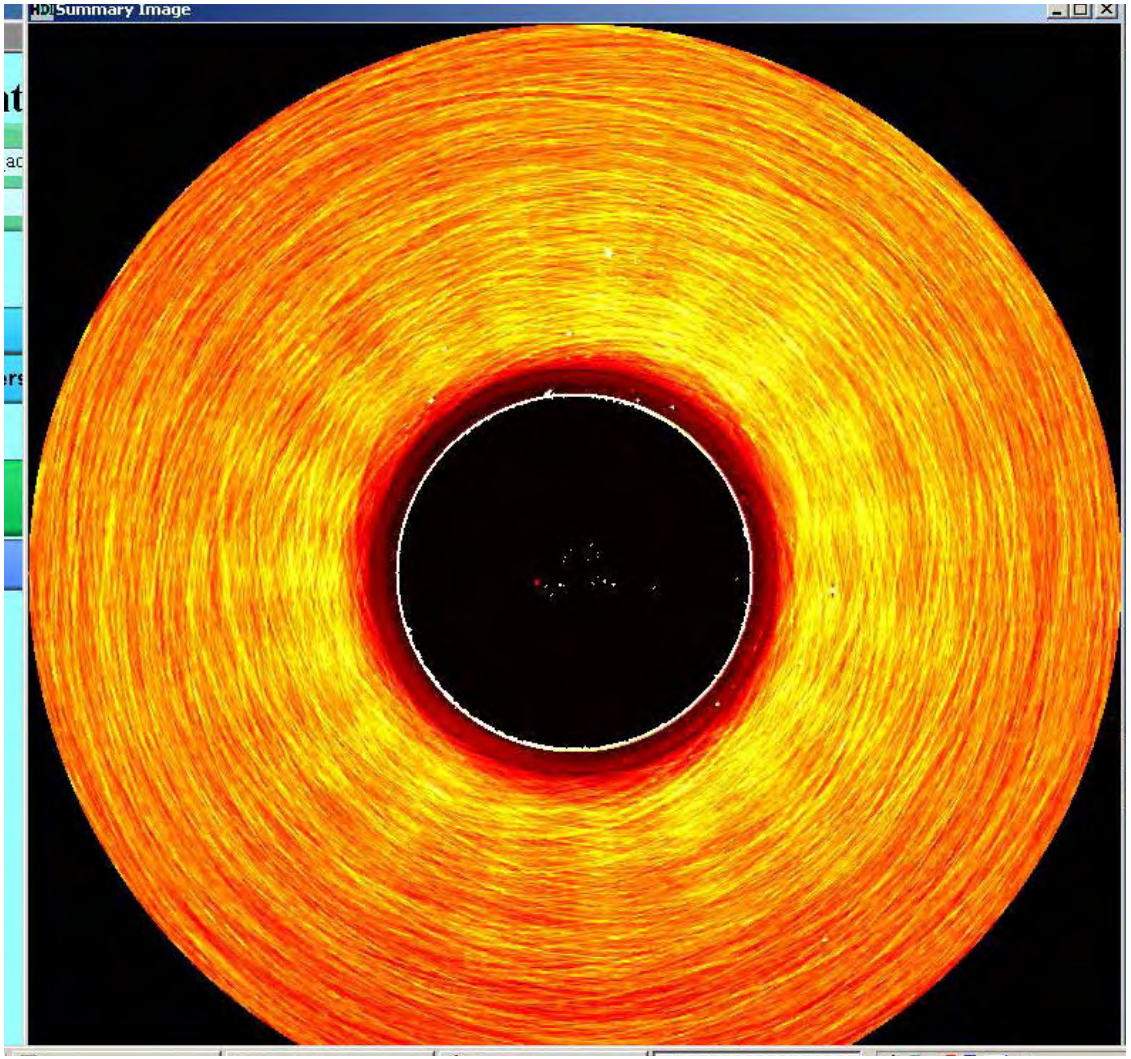


Waviness Results:



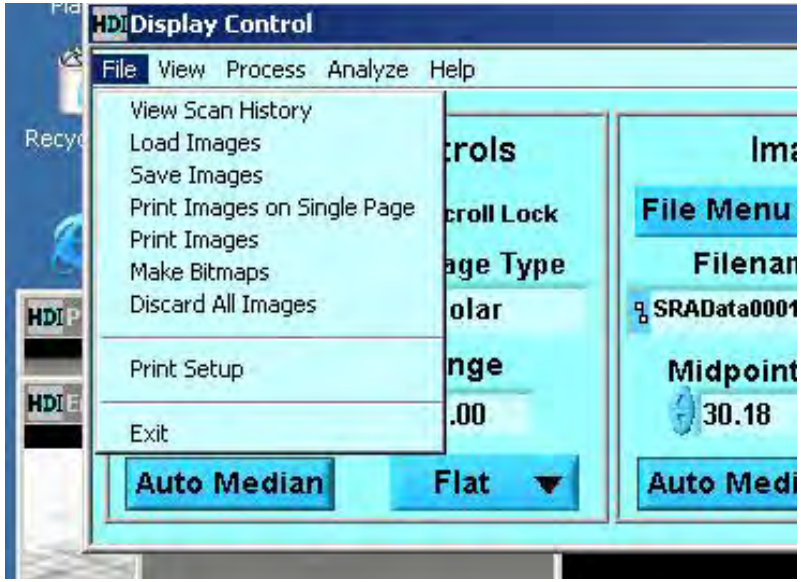
Summary image of the waviness scan, showing variations in intensity with color.

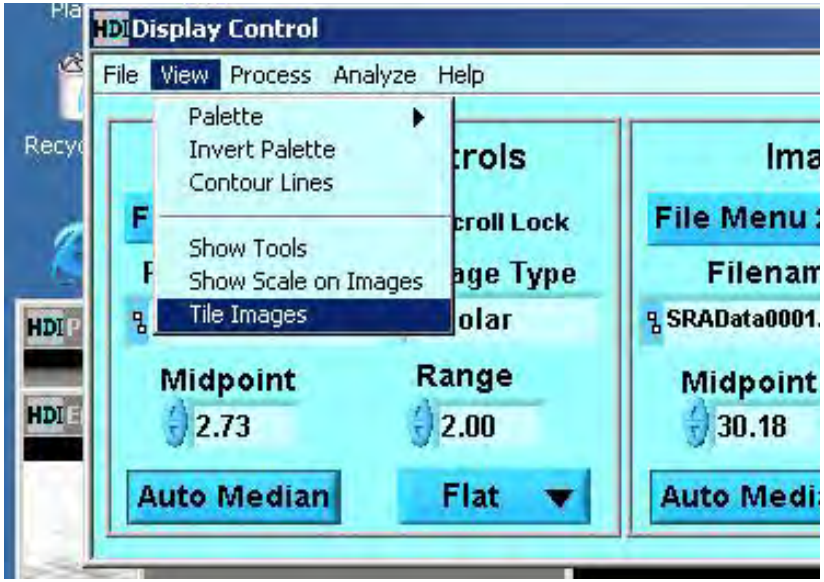
Result when Scribed:

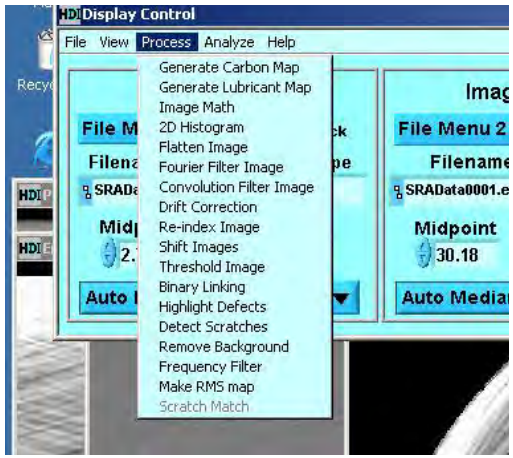


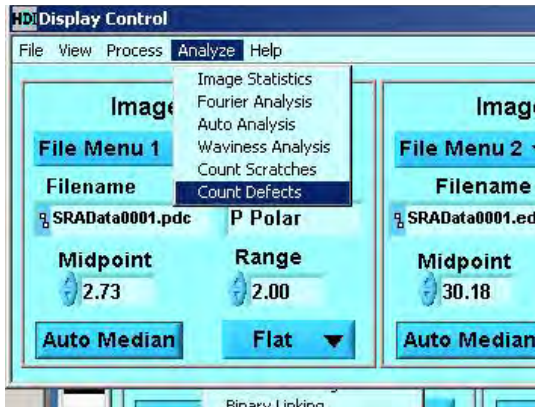
Scribed results of a waviness scan, the scribe mark is barely noticeable as it is extremely shallow in this case.

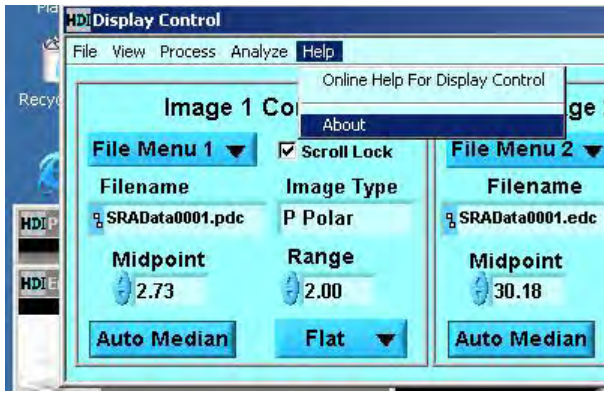
Analysis Submenus:









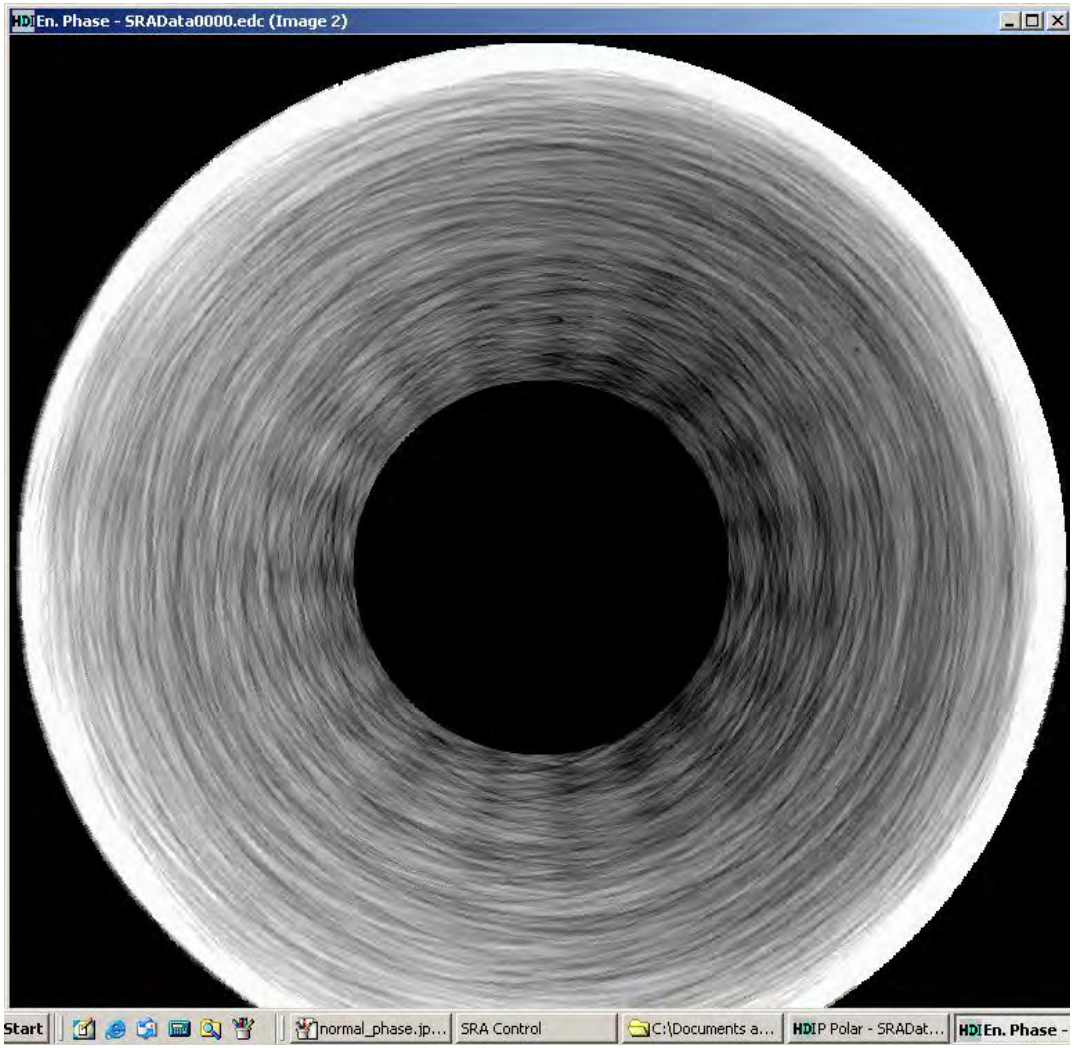


Experiment Mode:
To take analysis of the disk platter, we took a brand new platter, and wiped it with a rough cloth and alcohol.
Experiment Screen:



The Experiment Screen provides a mode for manually taking images of regions of interest. This screen is intended for general studies of disks by users familiar with the workings of the SRA and interested in performing their own customized analyses.

Experiment Normal Mode Result:
-Enhanced Phase:



Enhanced Phase Contrast is used for film/texture optics.

-P Polar:

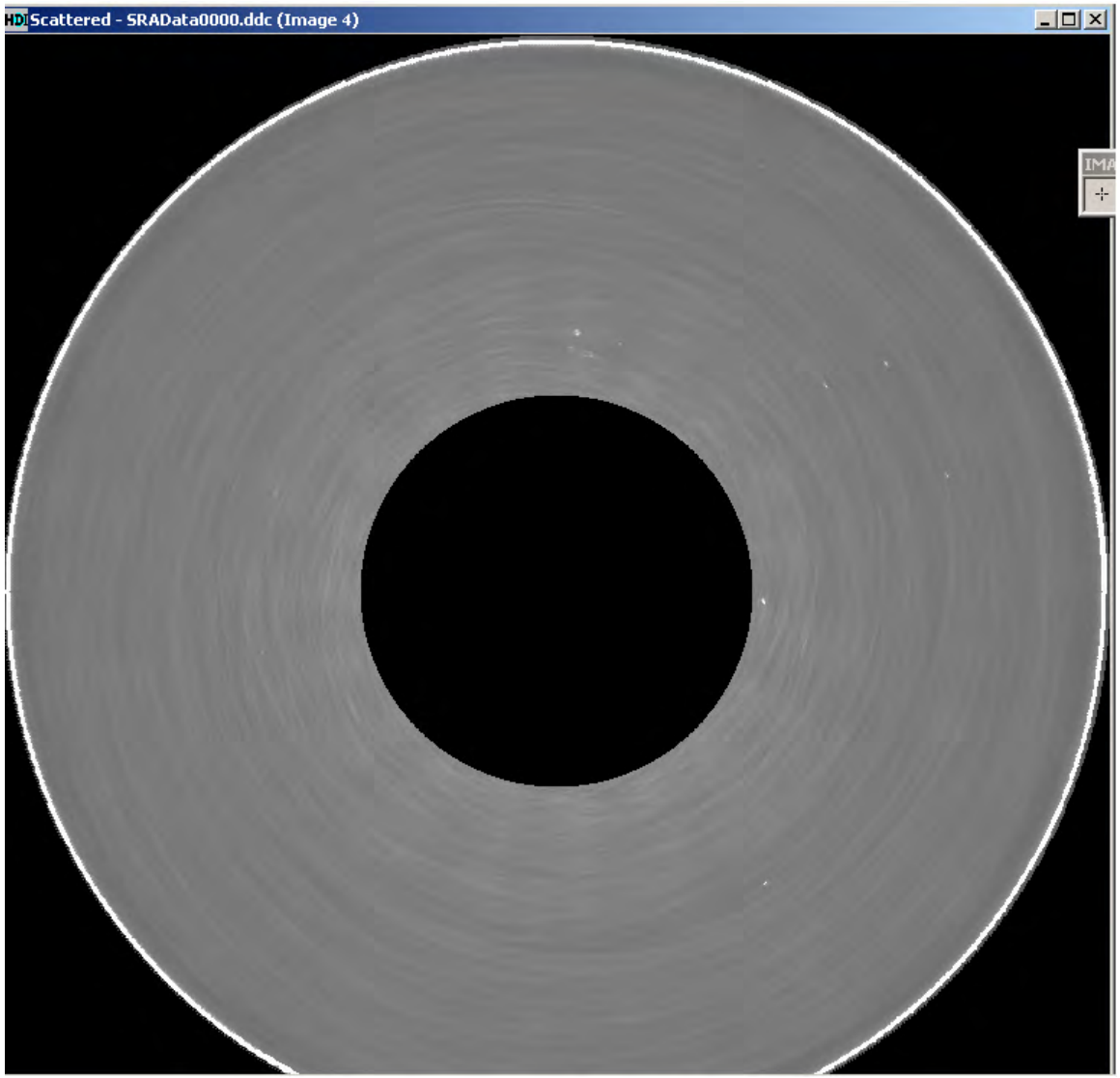


-Phase:

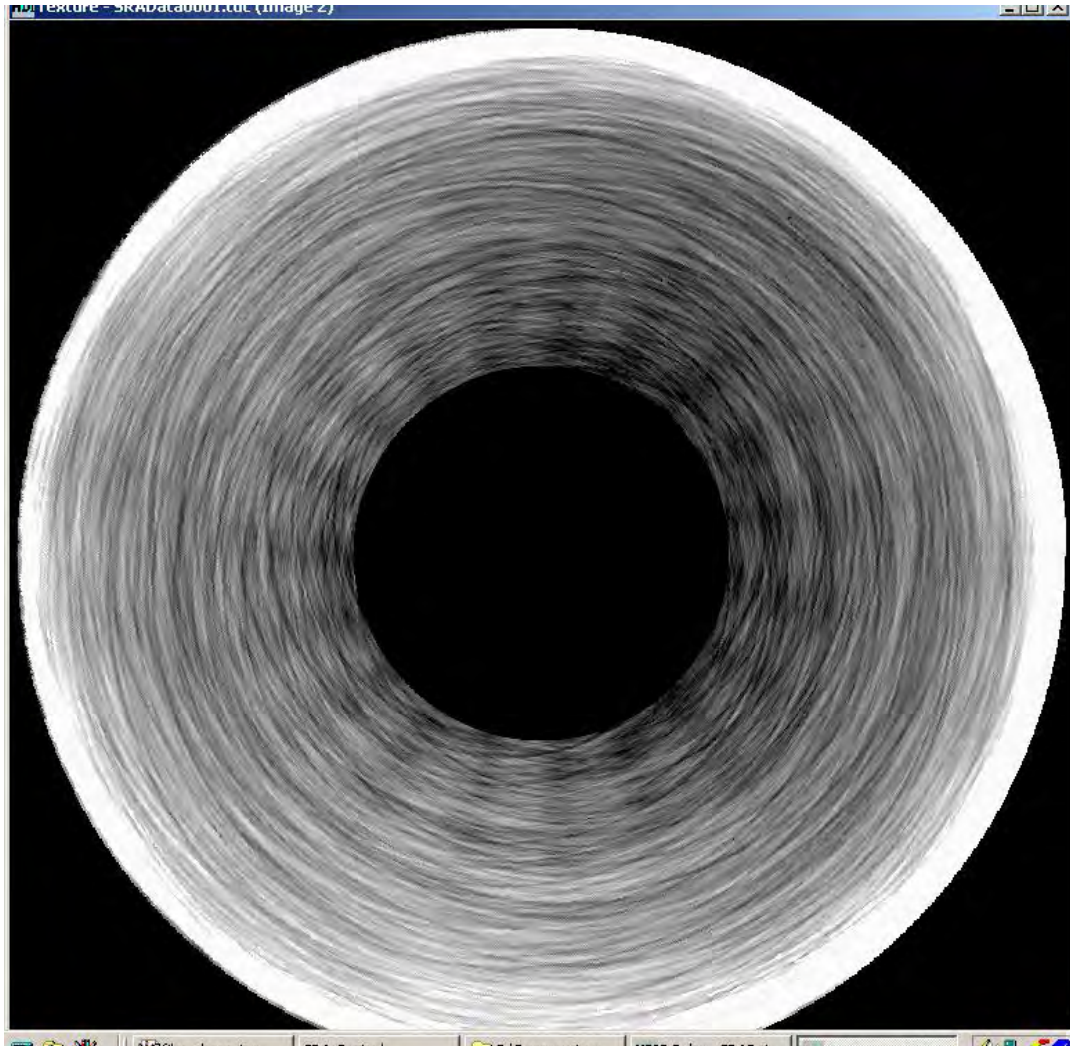


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-Scattered:

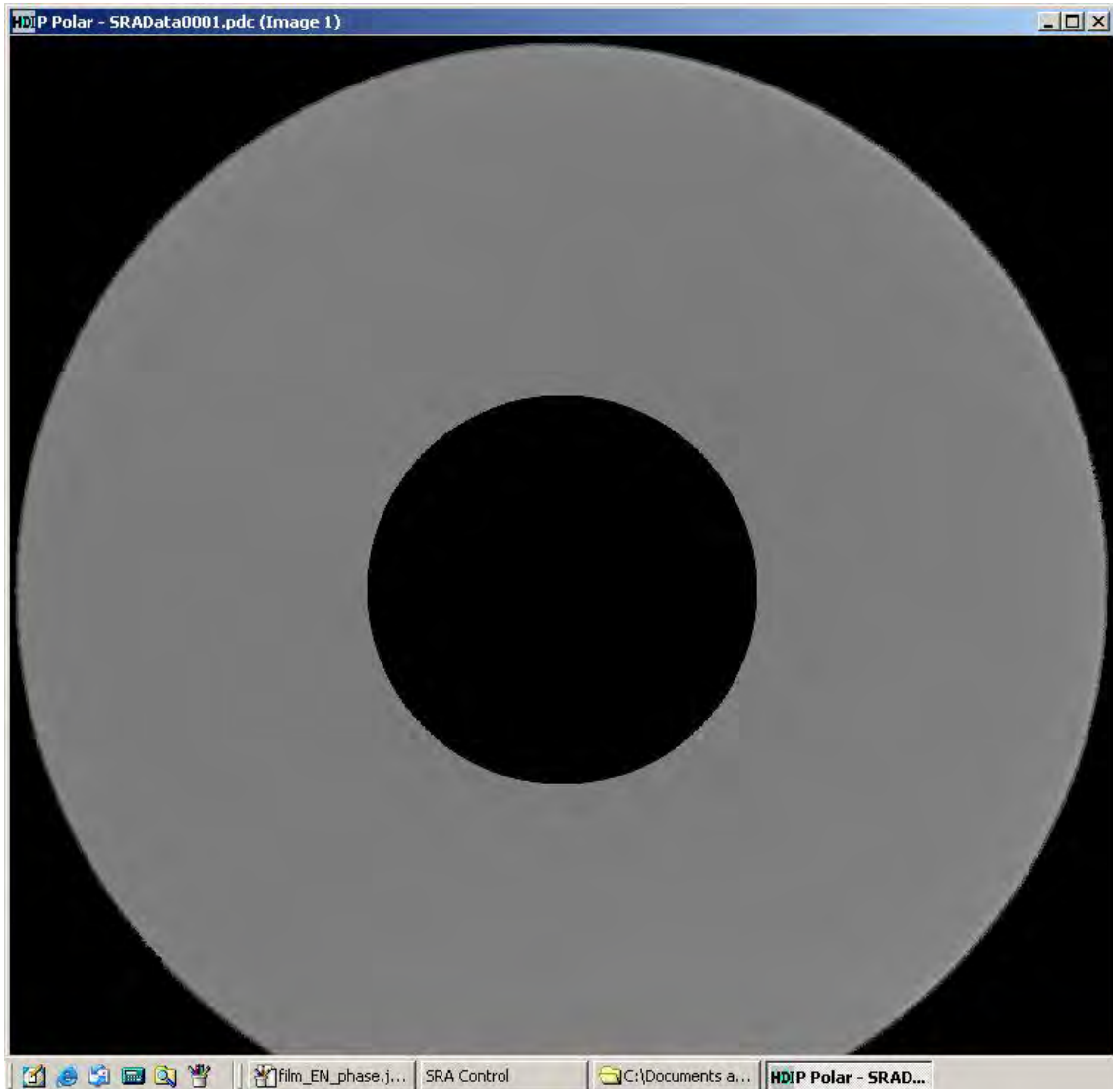


Experiment Film Scan Result:
-Enhanced Phase:



Enhanced Phase Contrast is used for film/texture optics.

-P Polar:

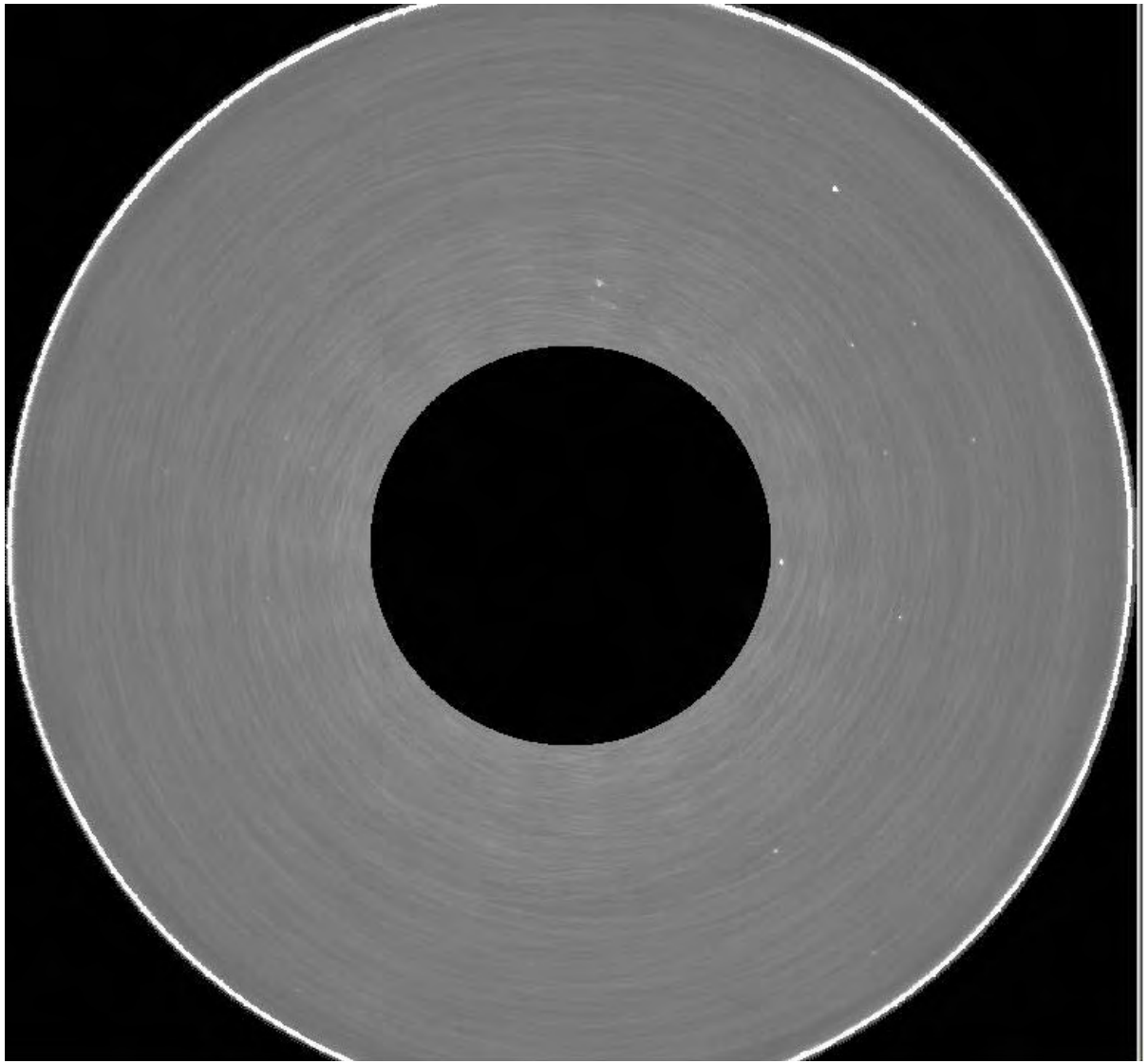


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-Phase:


film_scatt...
SRA Control
C:\Docu...
HDIP Polar - ...
HDITexture -...
HDIFilm - SR...

-Scatter:

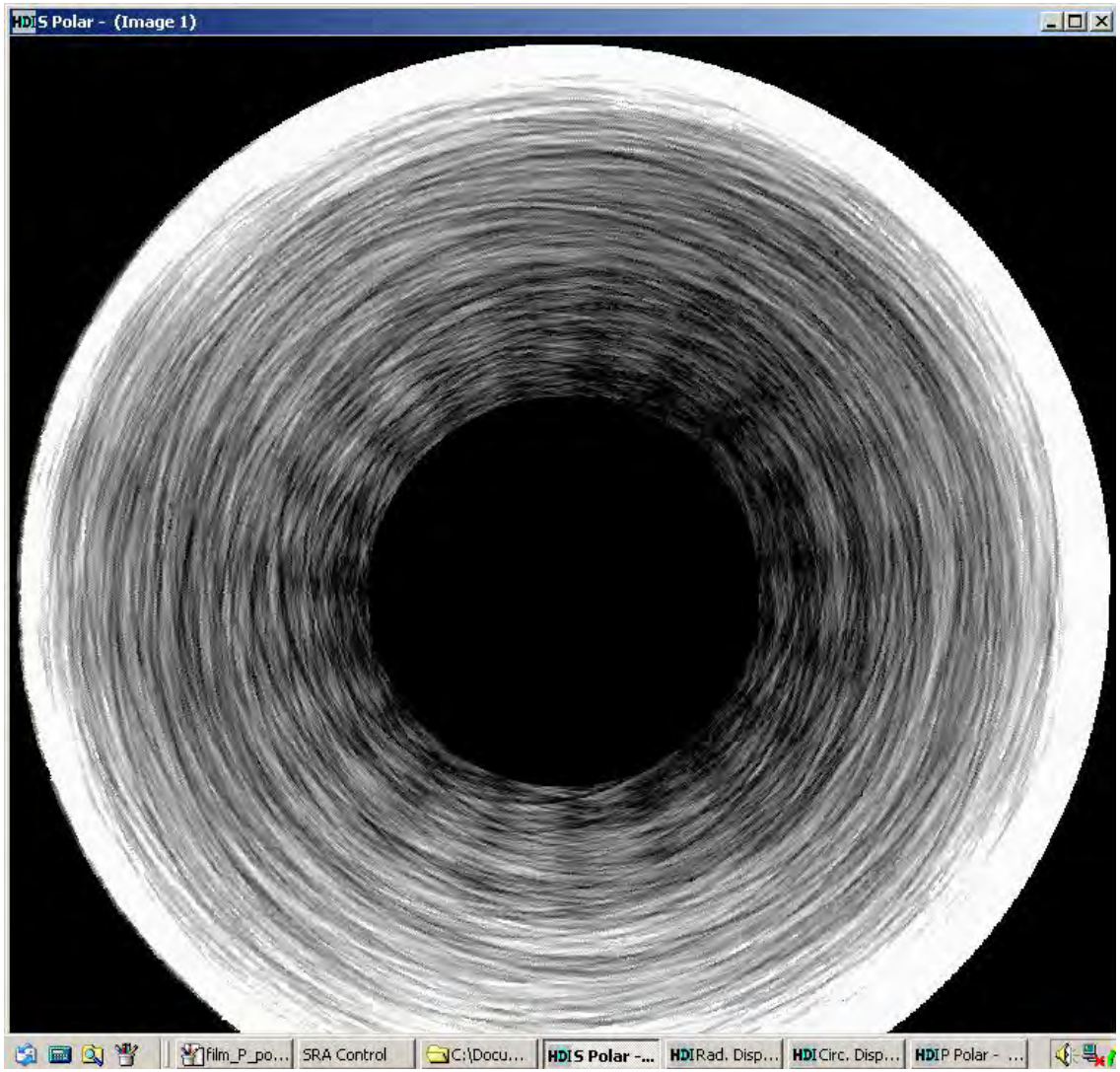


Experiment Wave Mode Result:
-Circular Displacement:

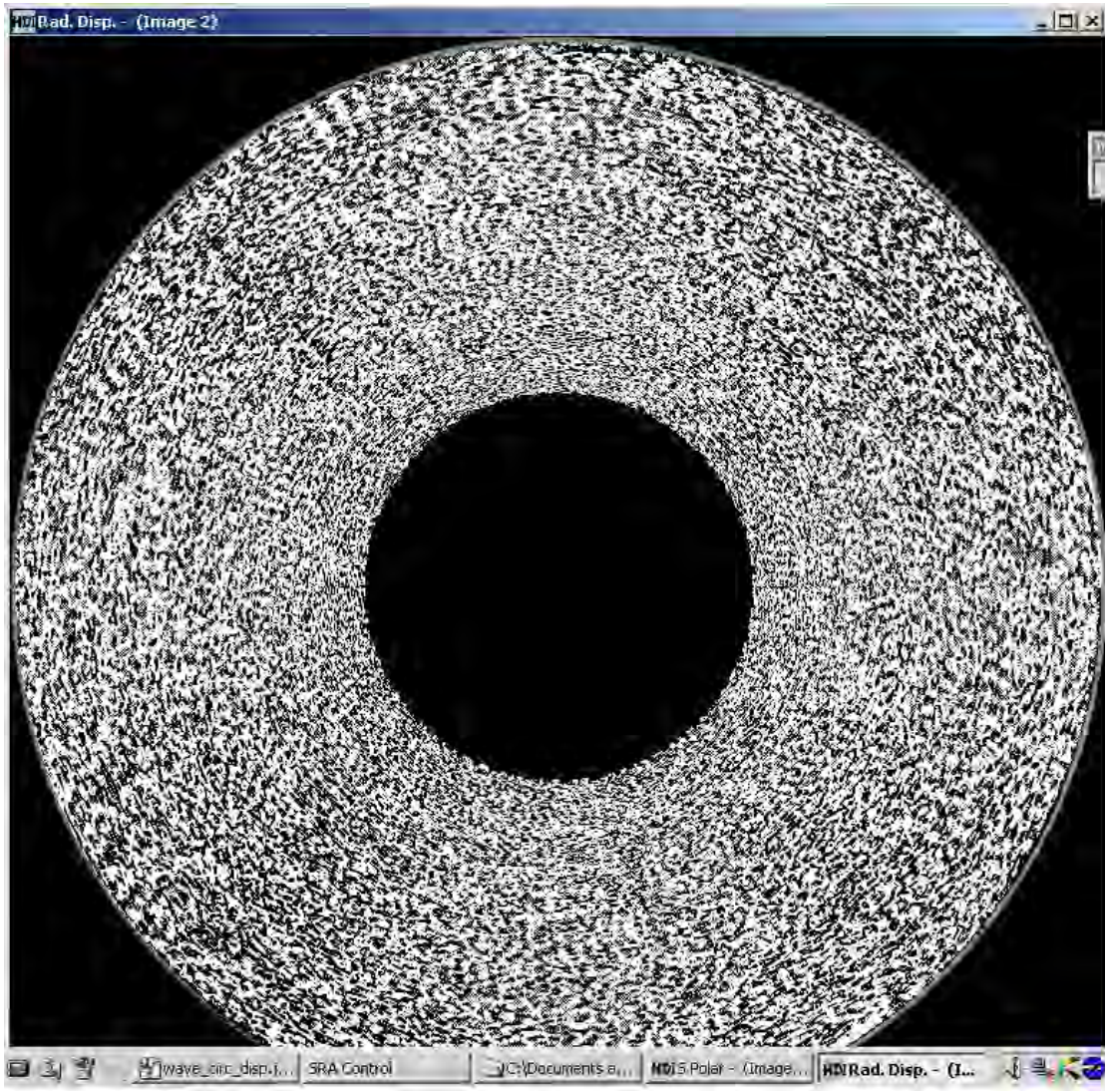


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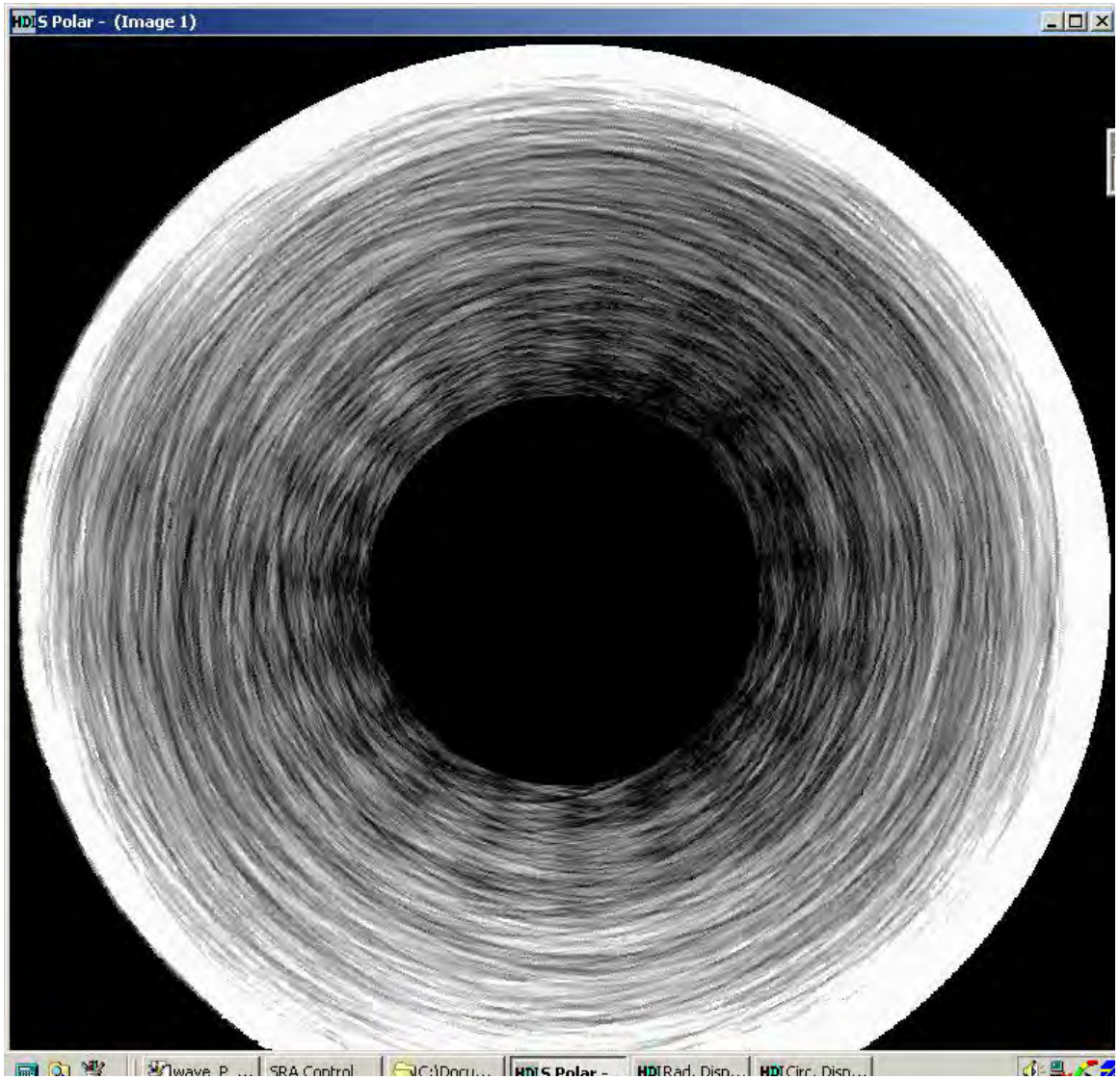
-P Polar:


S Polar - (Image 1)
film_P_po...
SRA Control
C:\Docu...
S Polar -...
Rad. Disp...
Circ. Disp...
P Polar - ...

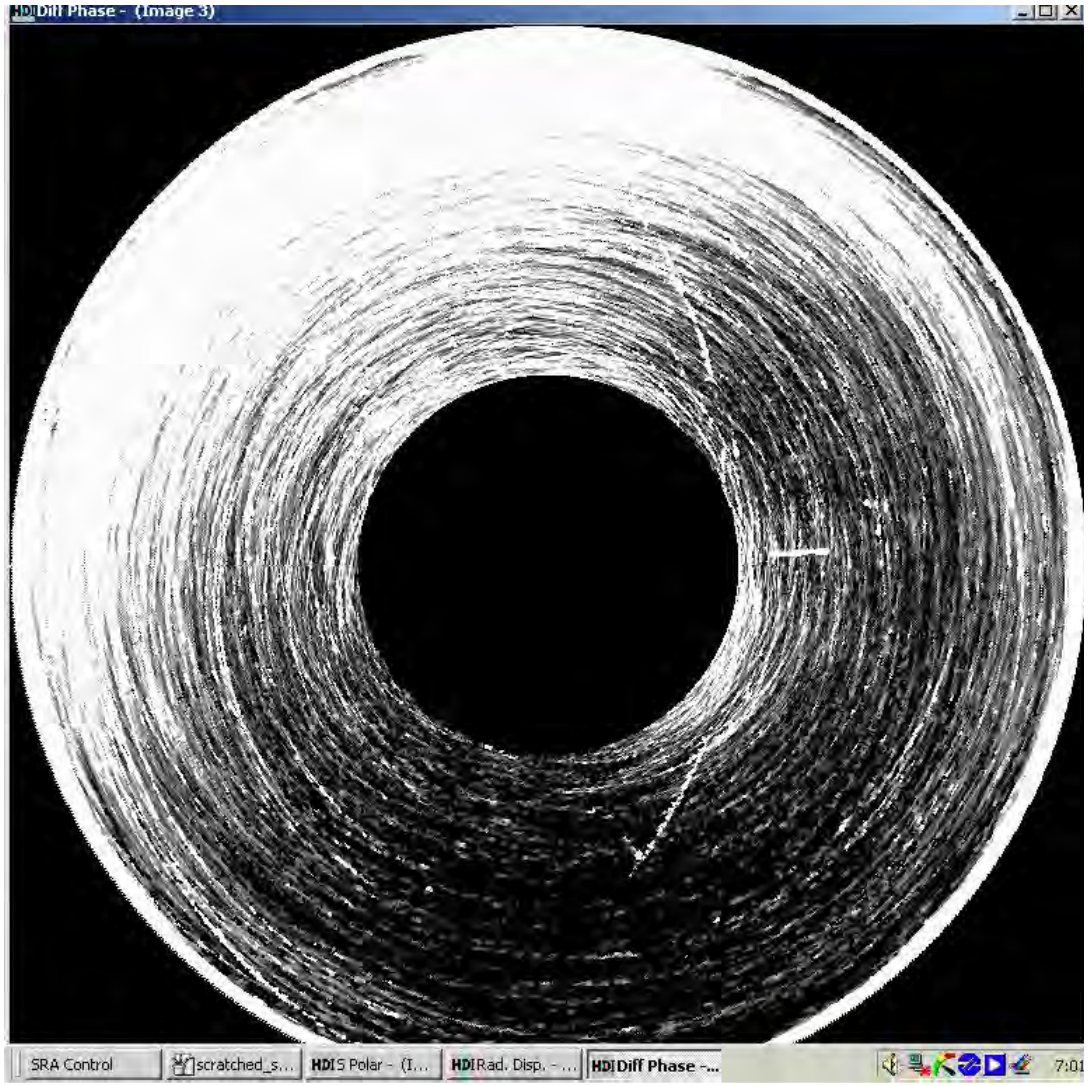
-Radial Displacement:



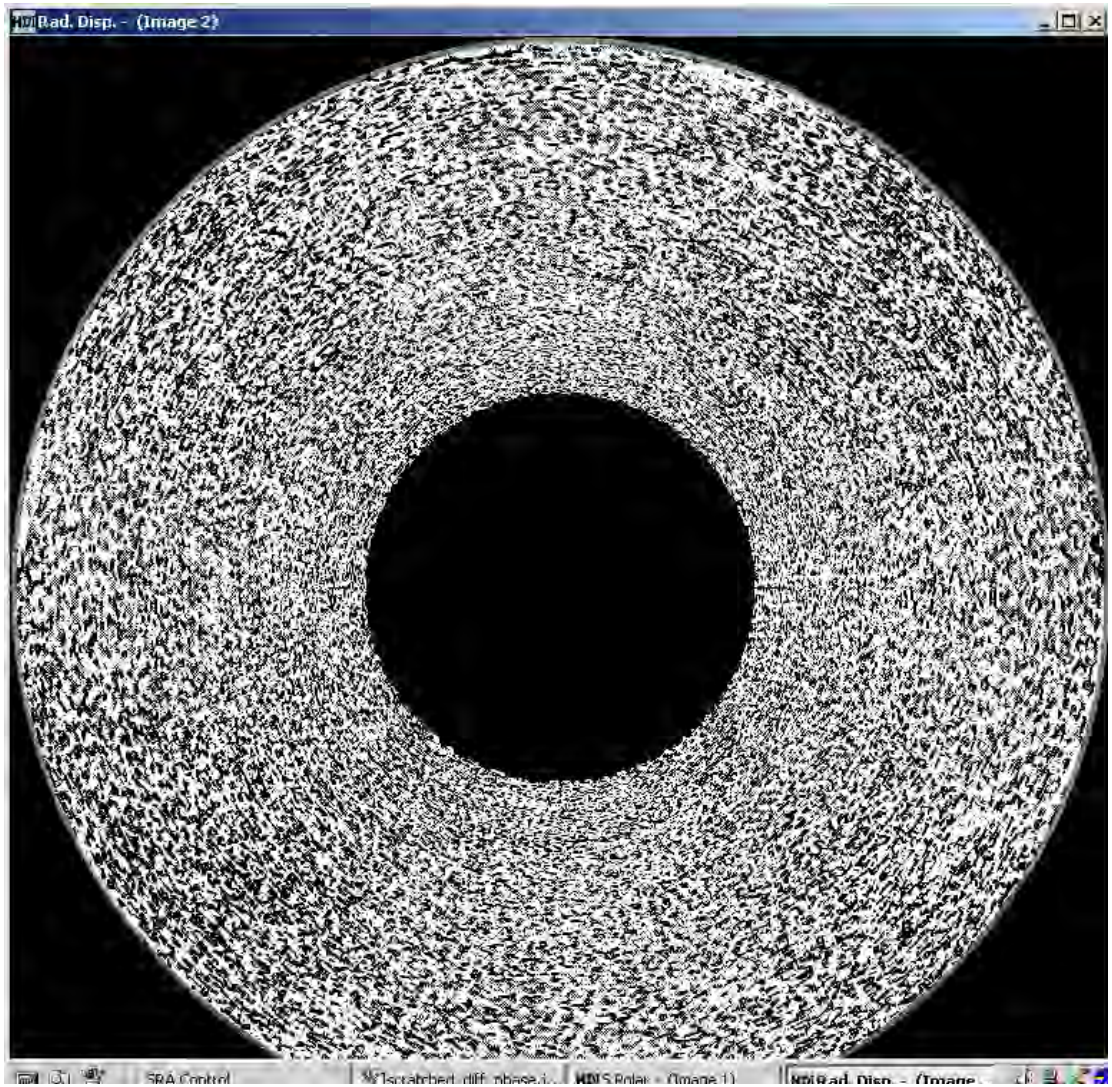
-S Polar:



Experiment Scratched Mode Result:
-Differential Phase:



-Radial Displacement:

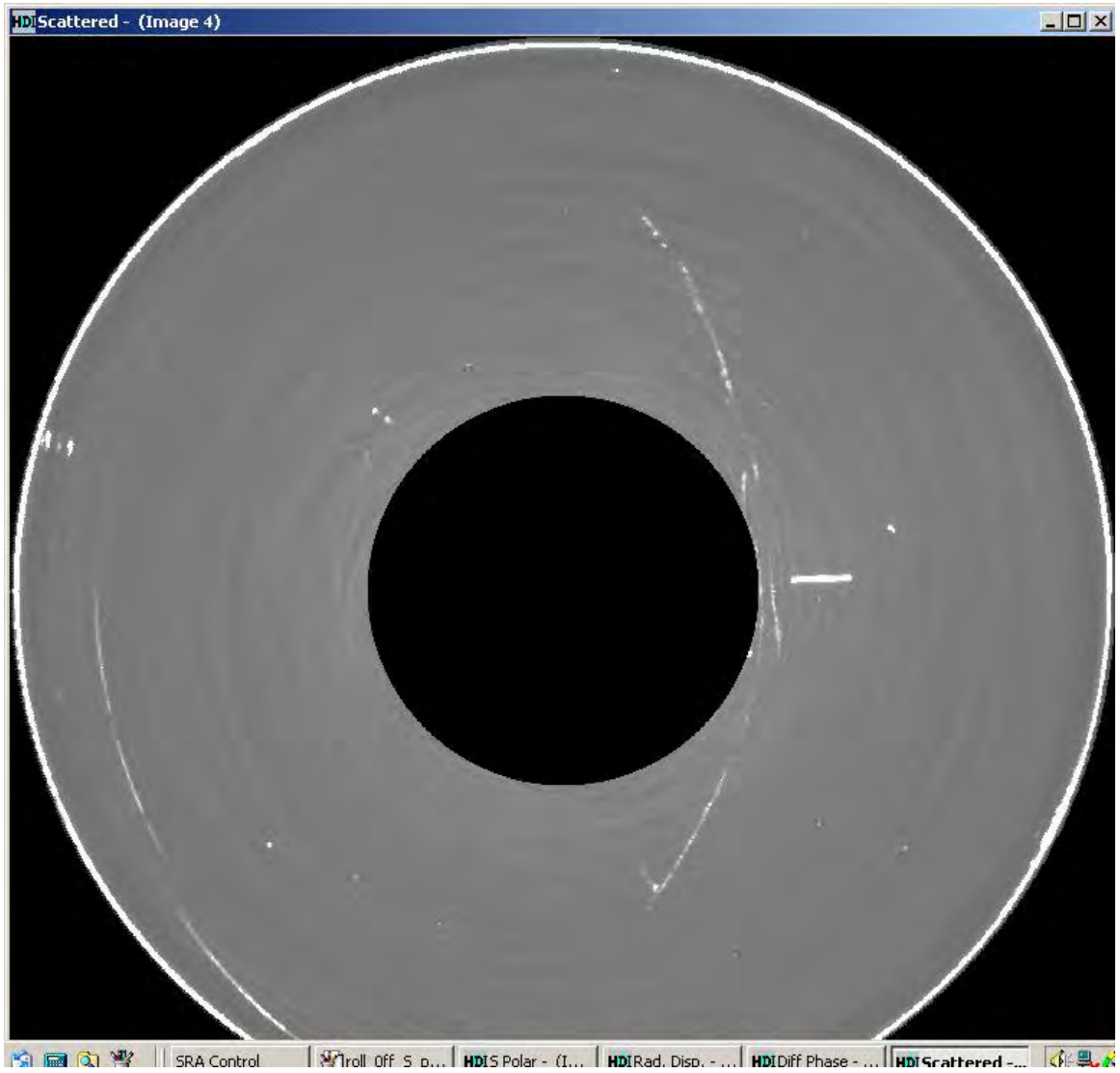


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-S Polar:



-Scattered:

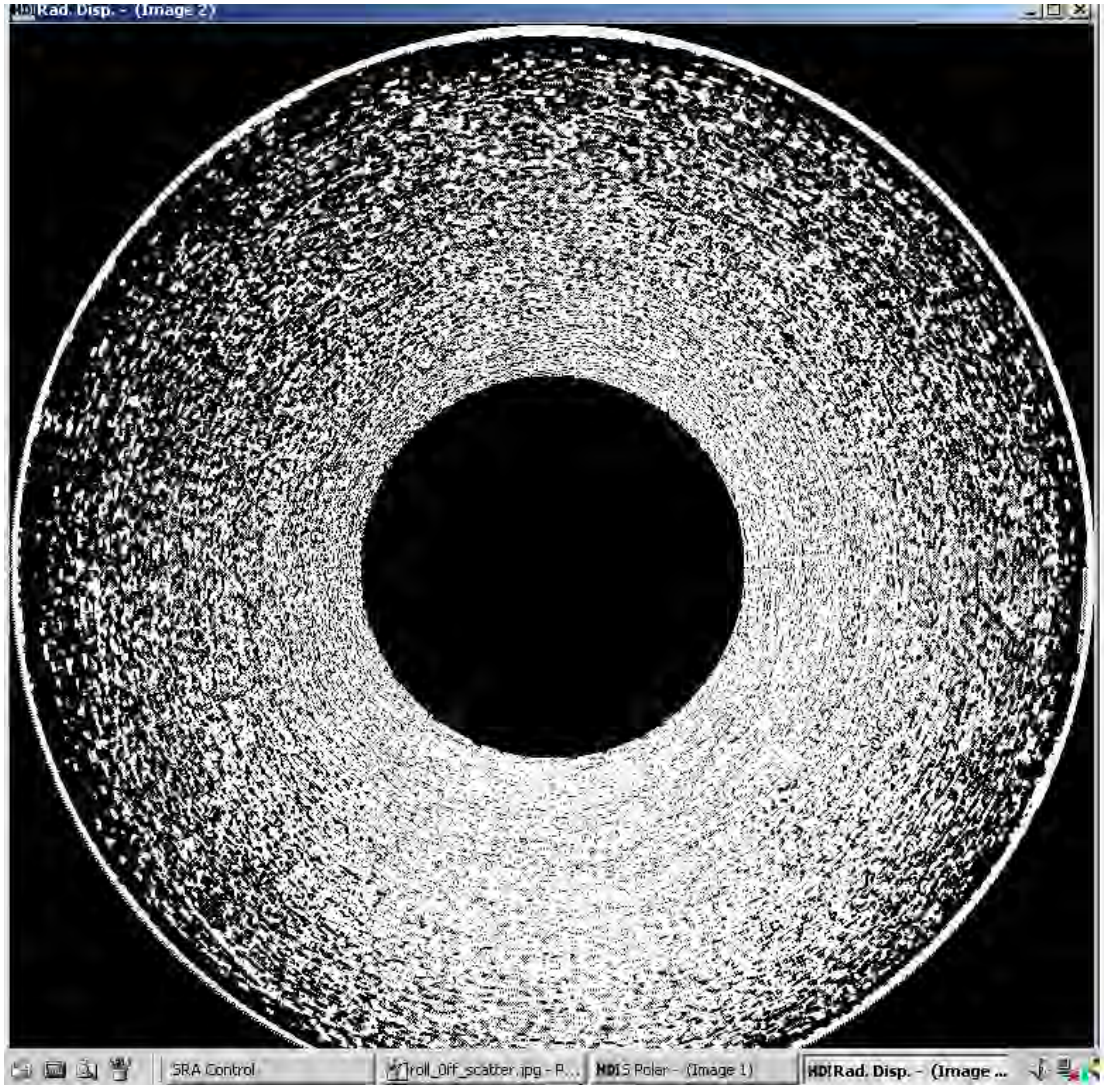

HDIScattered - (Image 4)
SRA Control
HDIS Polar - (I...
HDIRad. Disp. - ...
HDIDiff Phase - ...
HDIScattered -...

Experiment Rolloff Result:
-P Polar:

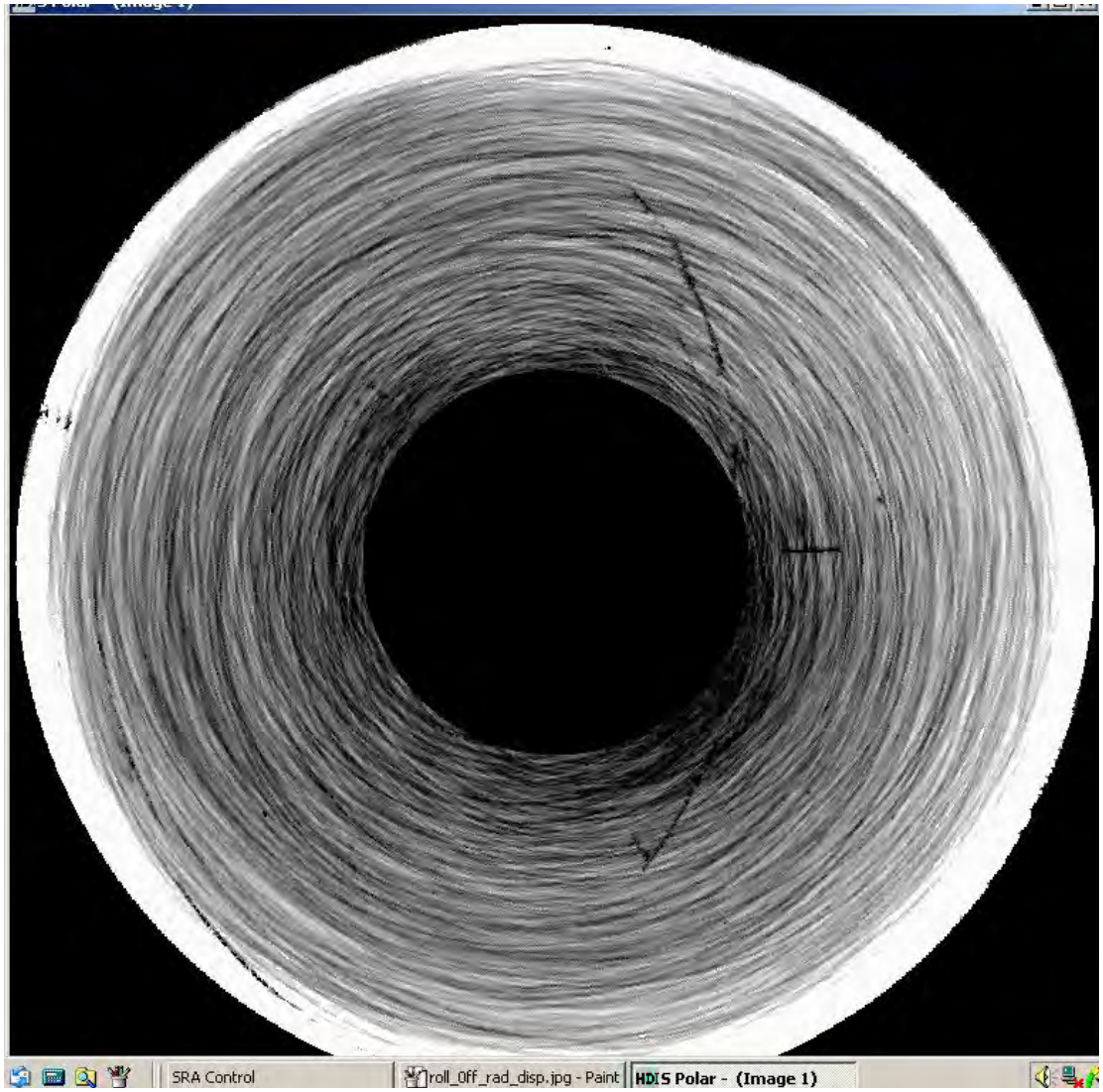


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-Radial Displacement:

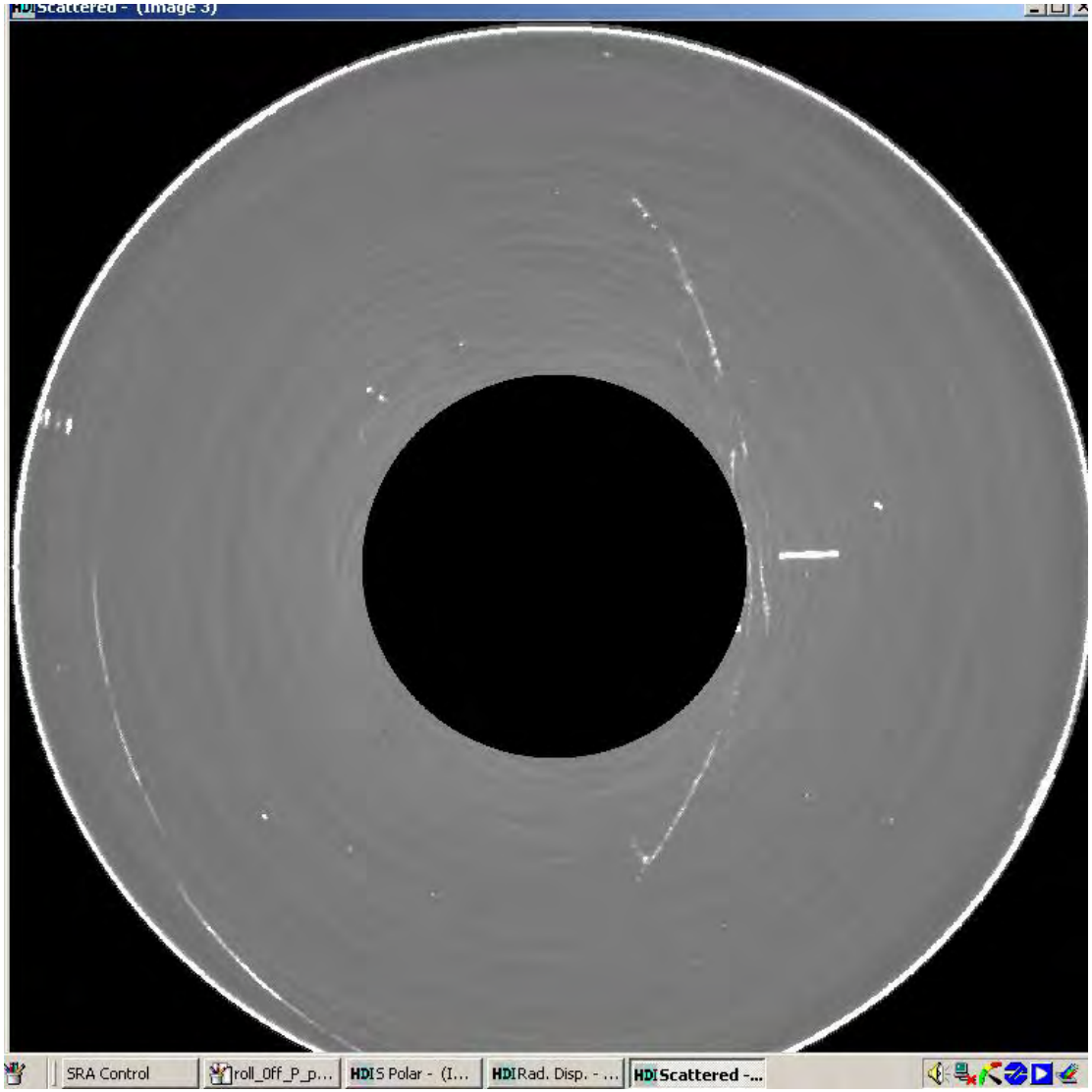


-S Polar:

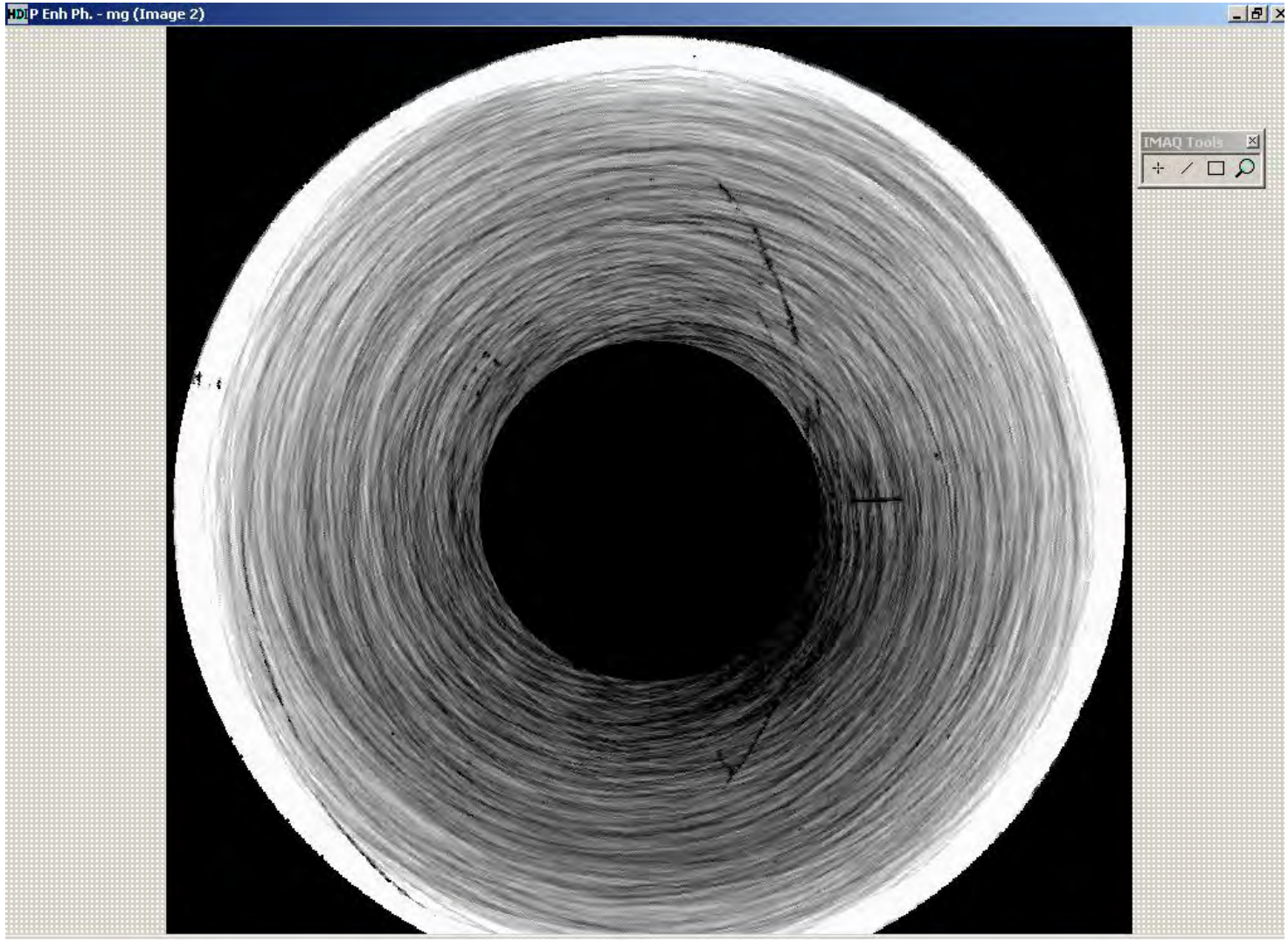


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-Scattered:

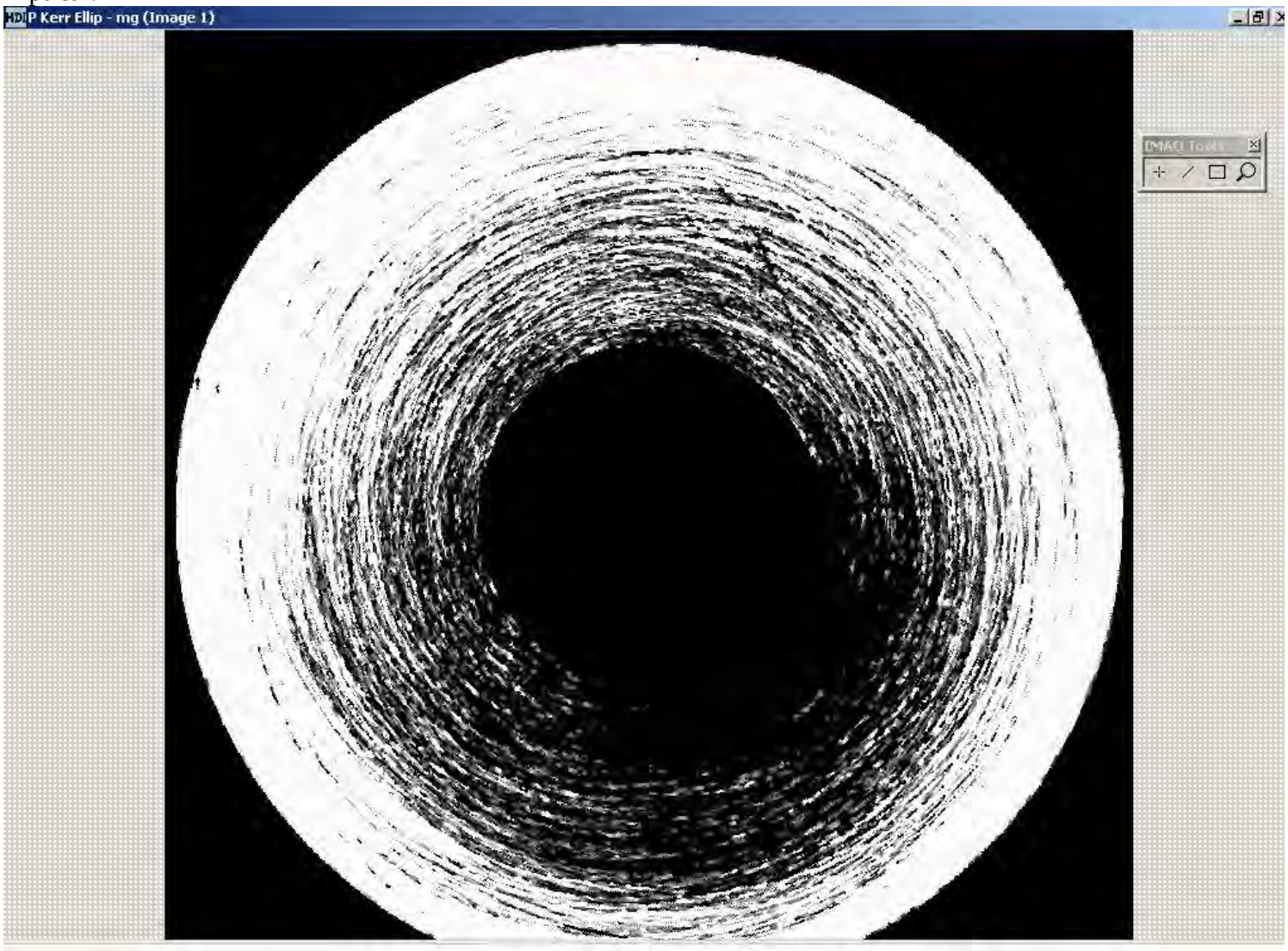

HDIScattered - (Image 3)
SRA Control
roll_Off_P_p...
HDIS Polar - (I...
HDIRad. Disp. - ...
HDIScattered -...

Experiment Magnetic Mode Result:
-P Enhanced Phase:

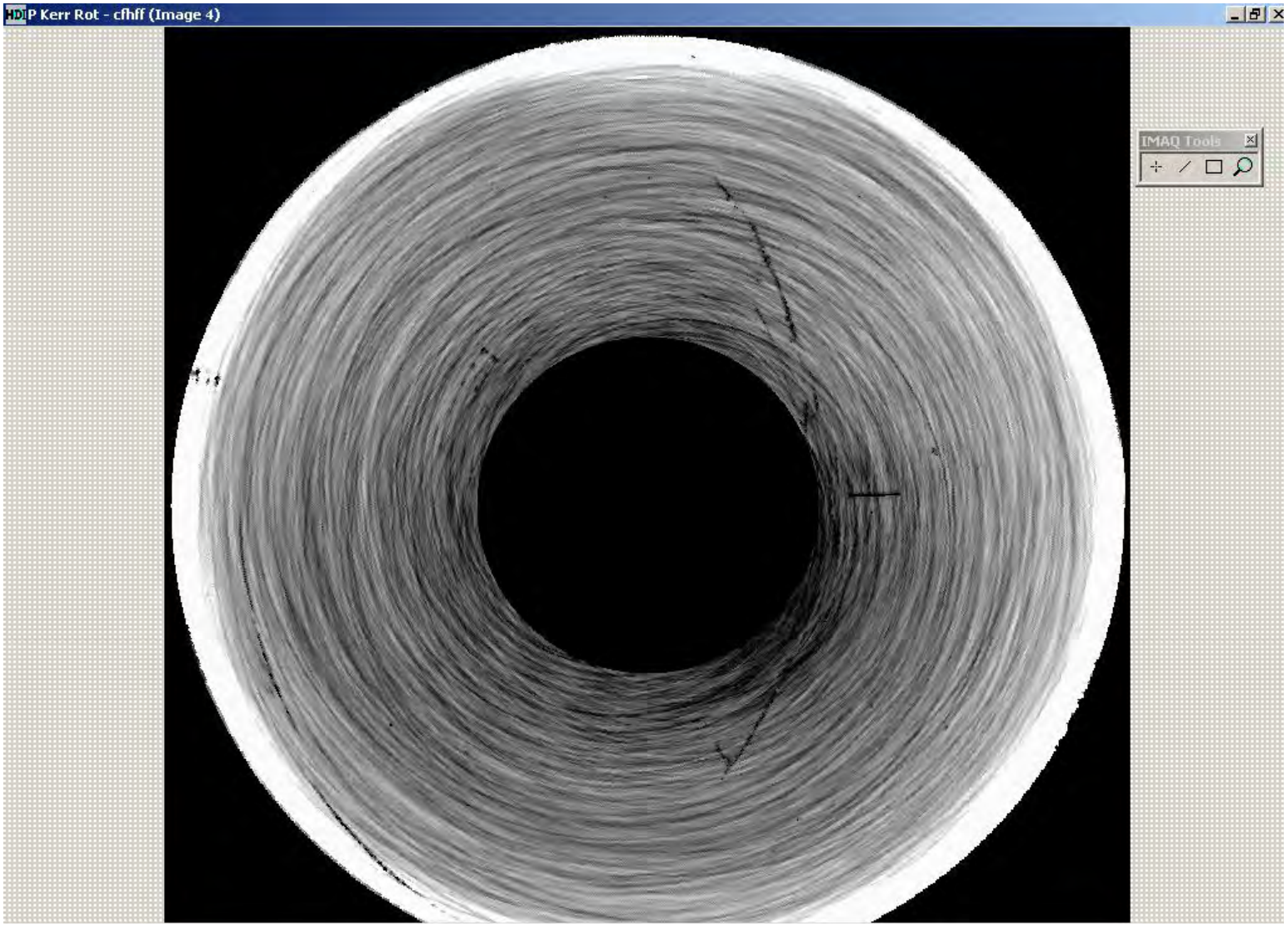


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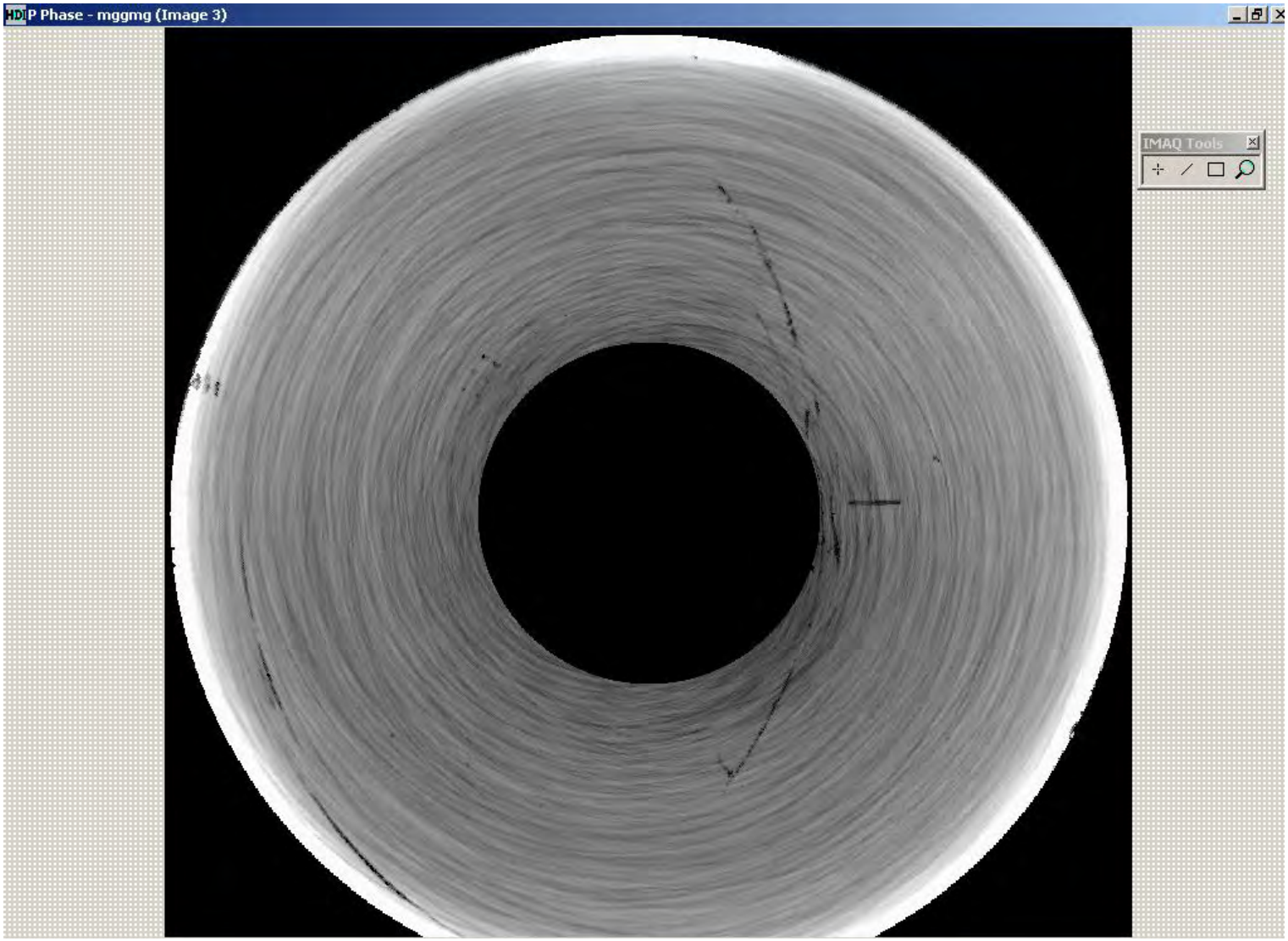
-P Kerr Elliptical:



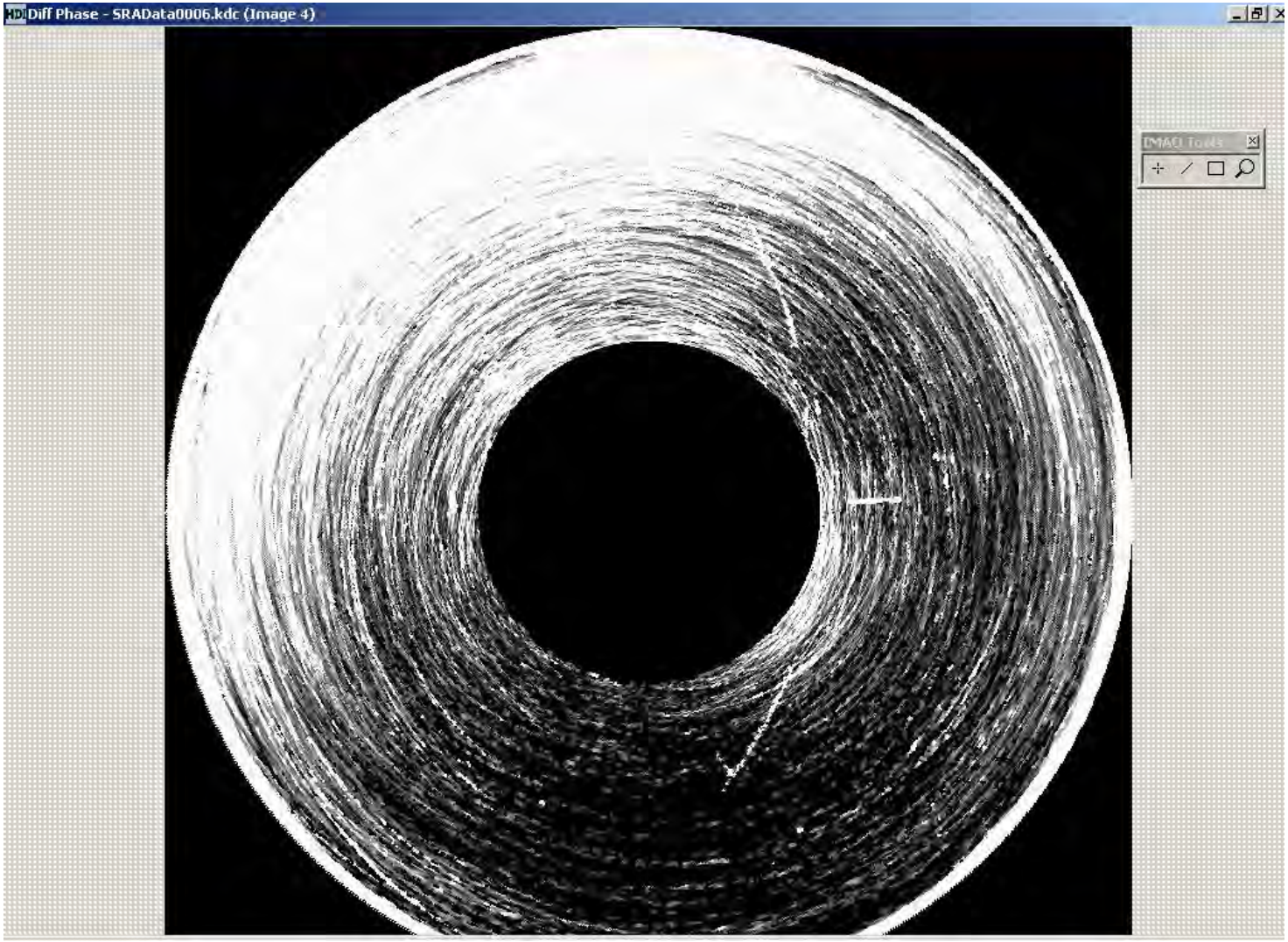
-P Kerr Rotation:



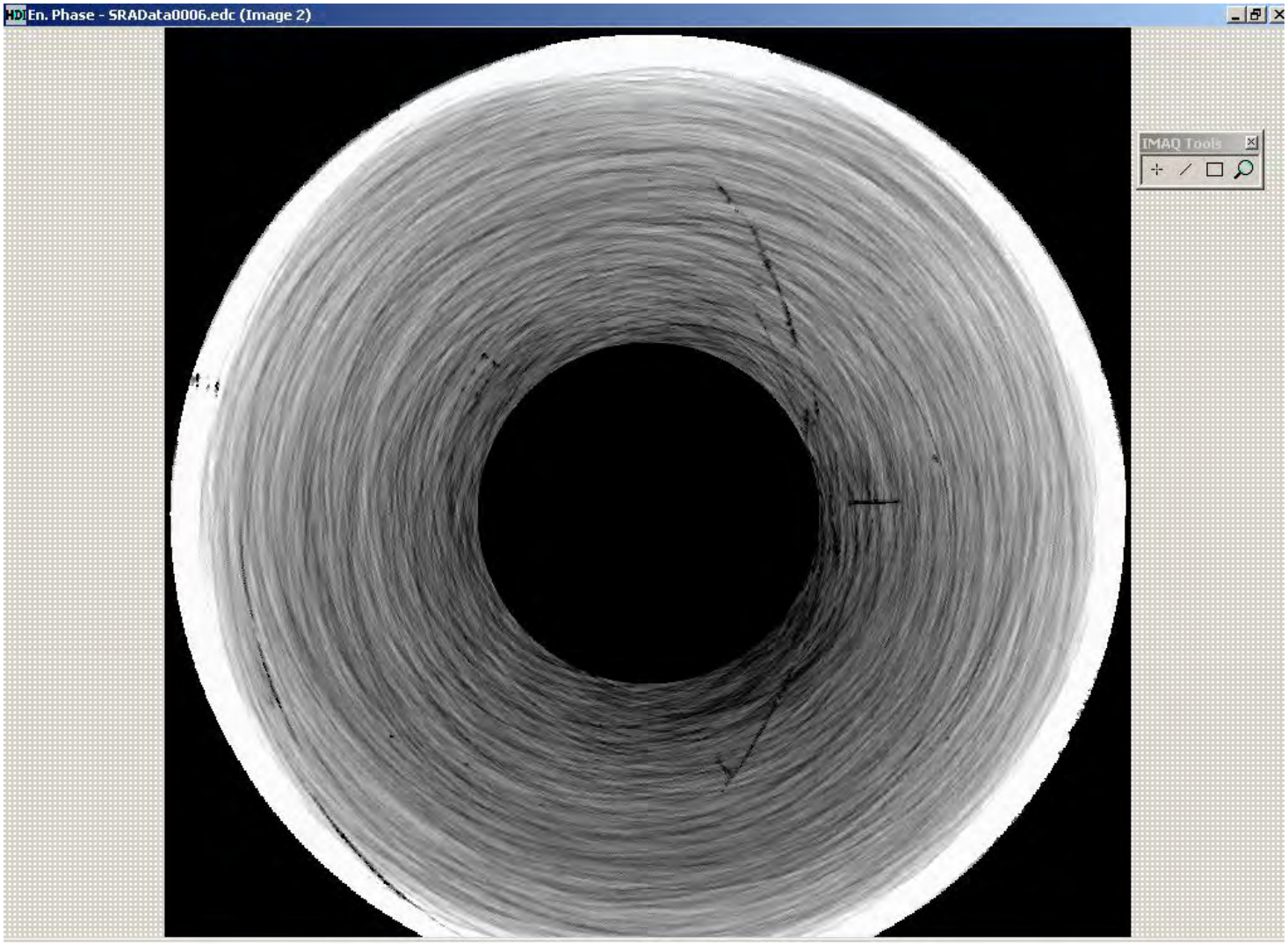
-P Phase:



Experiment Lube Mode Result:
-Diff Phase:



-Enhanced Phase:



Enhanced Phase Contrast is used for film/texture optics.

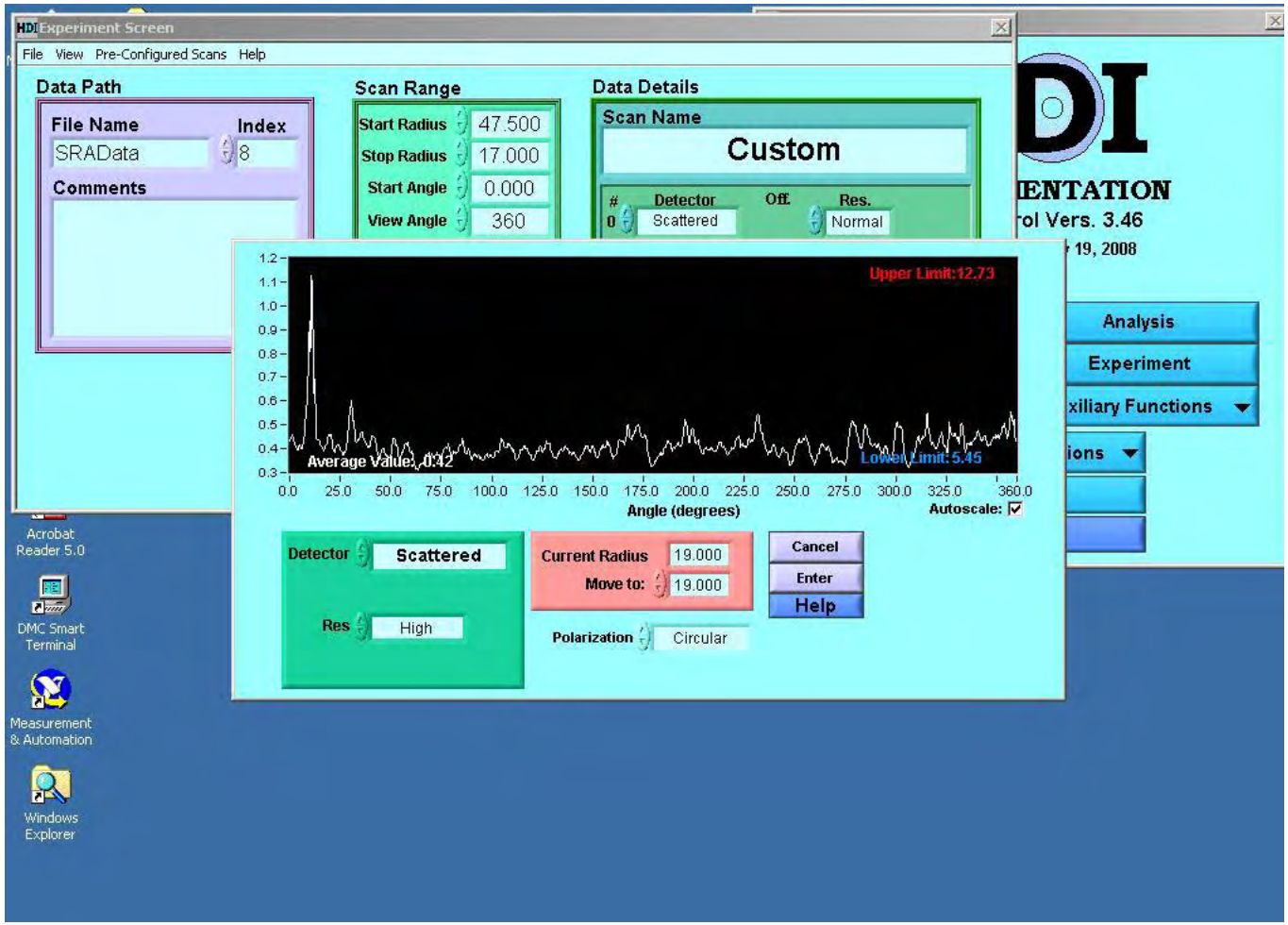
-Phase:



-P Polar:

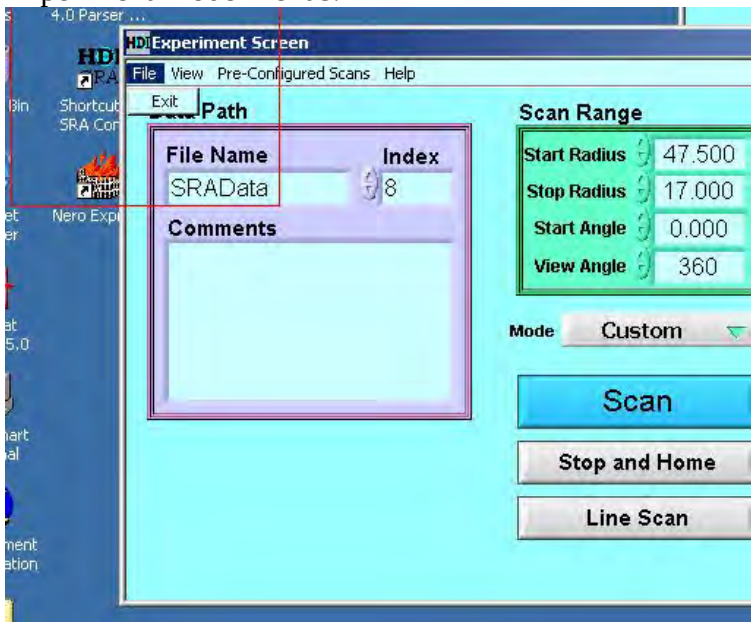


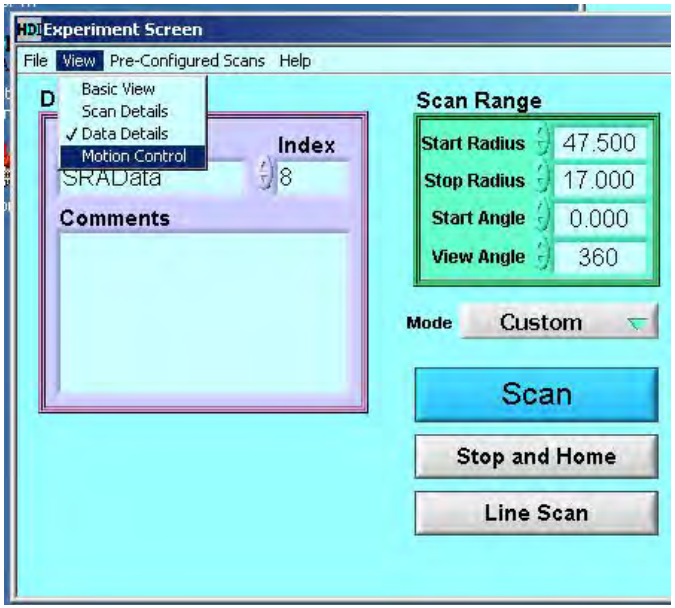
Experiment Line Scan Result:

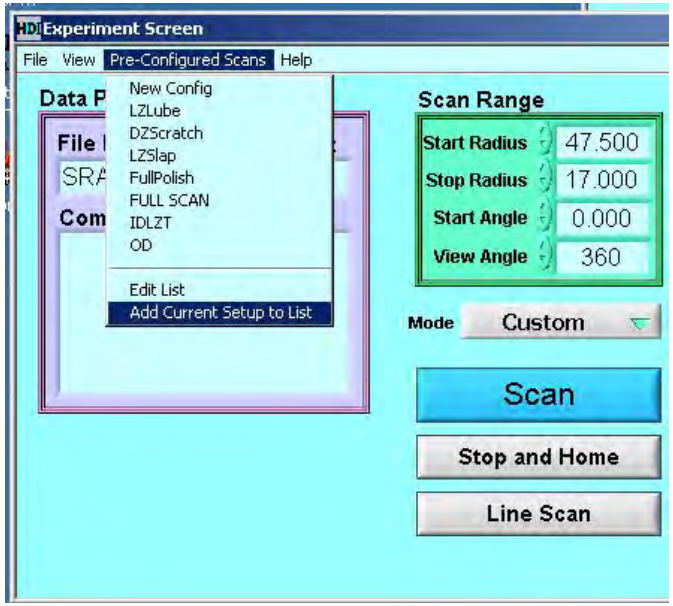


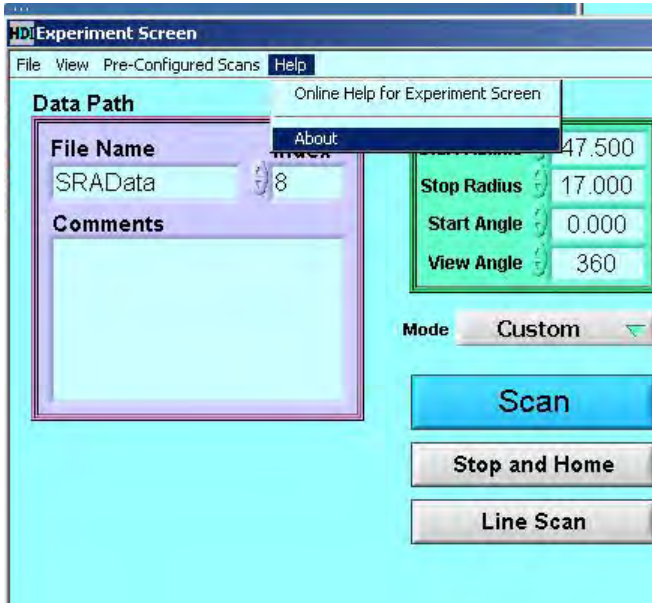
The purpose of the line scan is to perform a pre-scan of a track on the disk about to be scanned and to use the reflectivity information of this track to estimate the proper settings of the offset and resolution for each of the detectors. It is important that the disk to be scanned is mounted on the spindle before proceeding with the Line Scan.

Experiment Mode Menus:

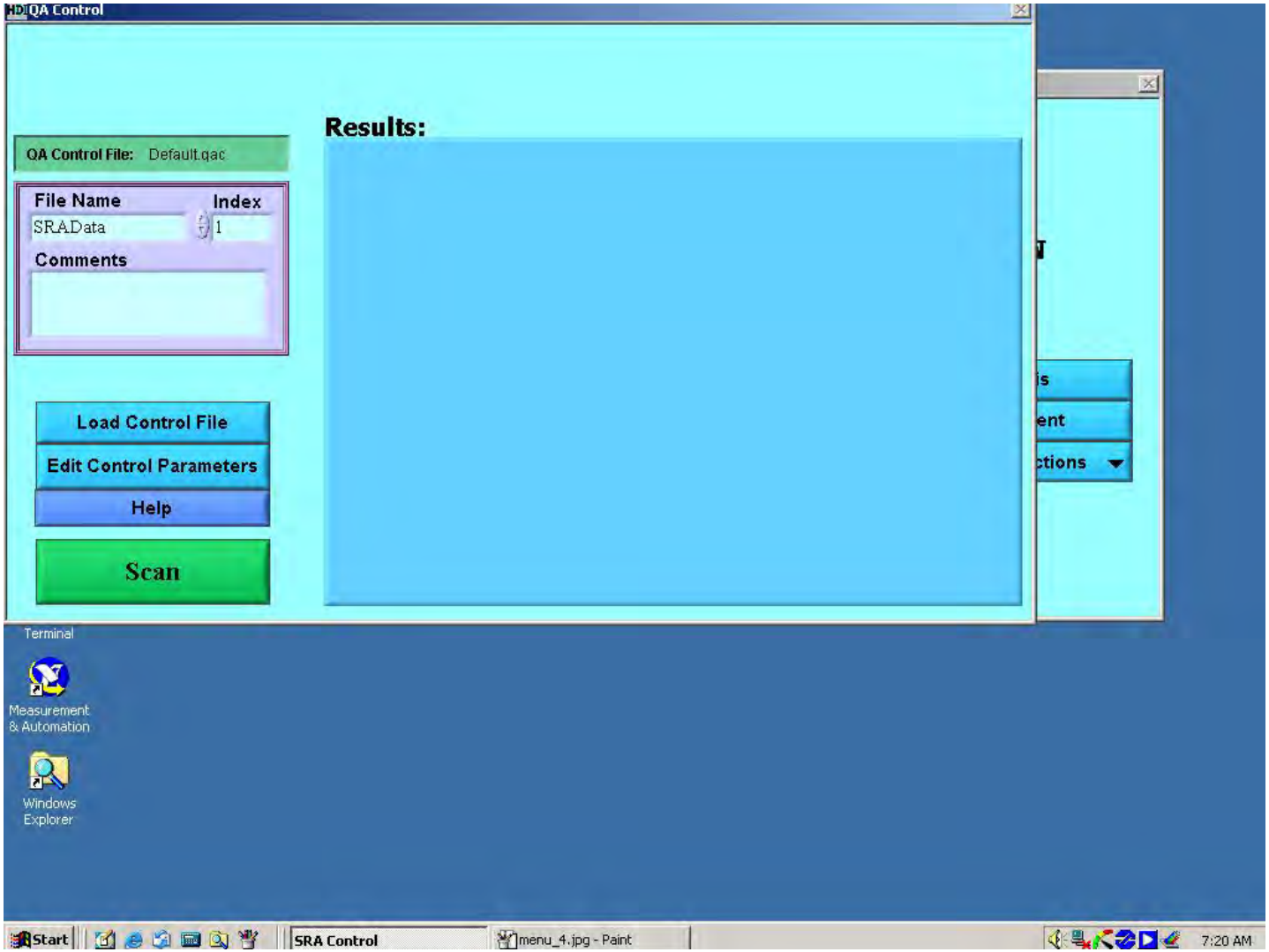






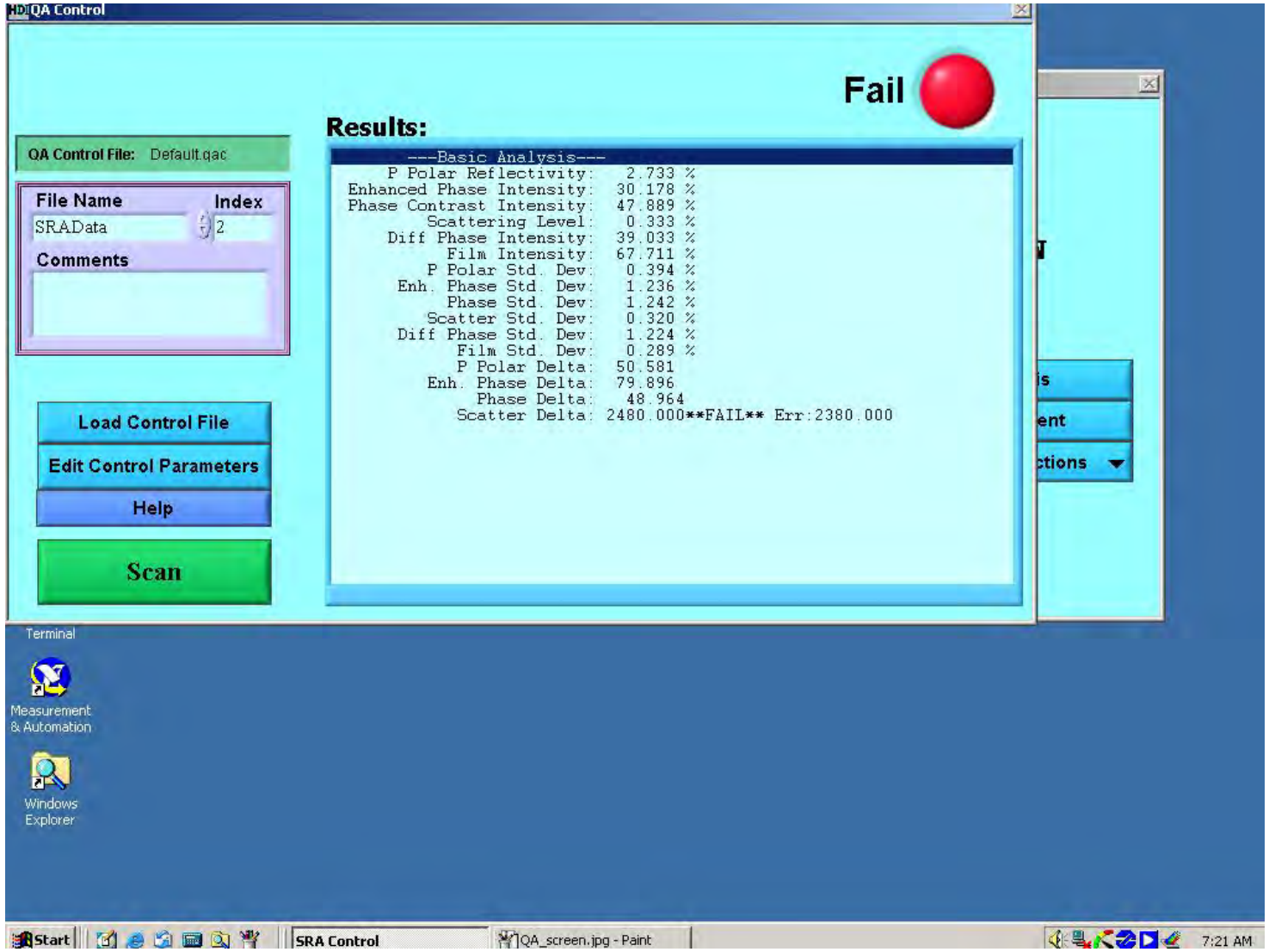


QA Control:

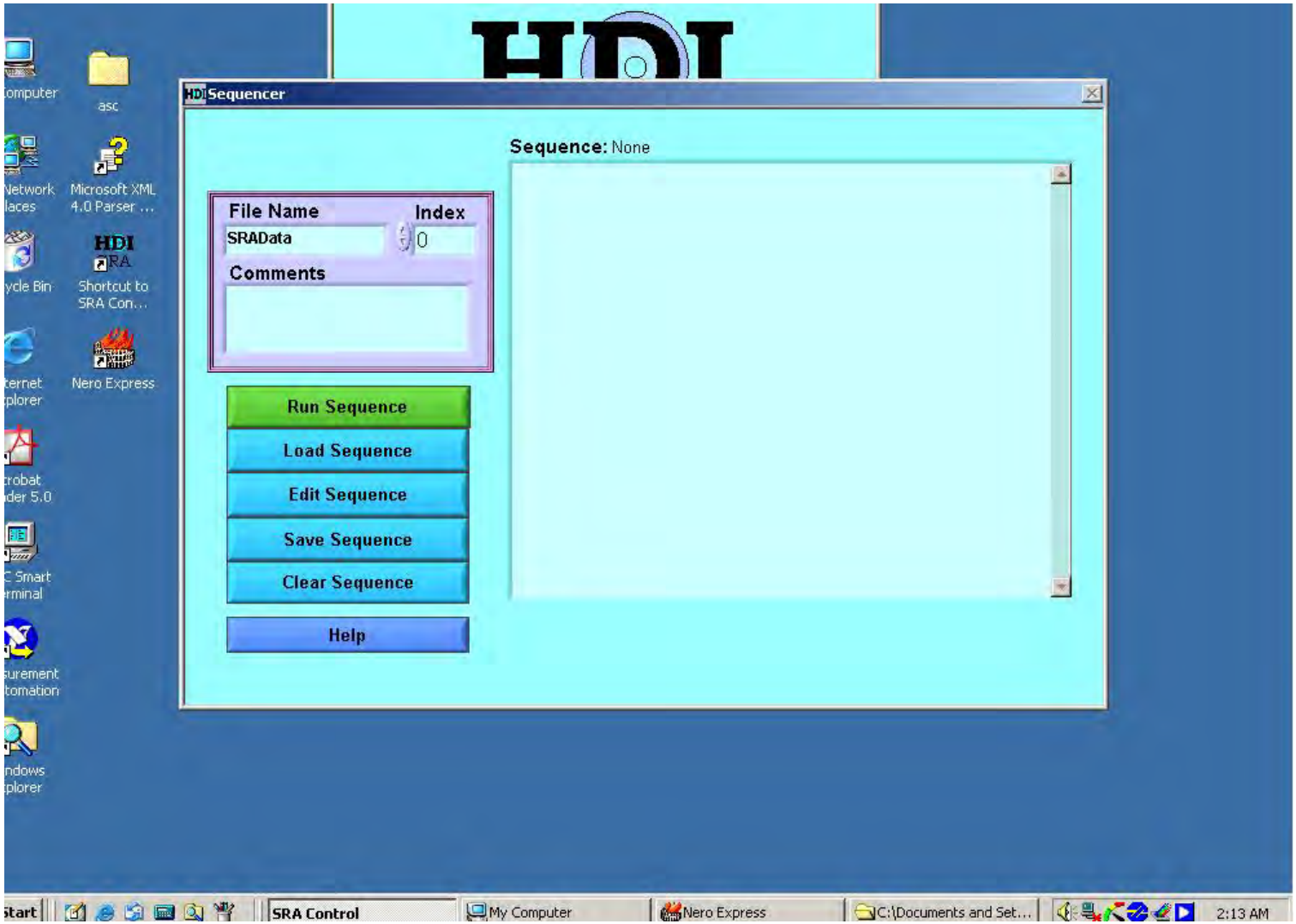


Use the QA Control for in-situ production monitoring

QA Control Catches a Fail:

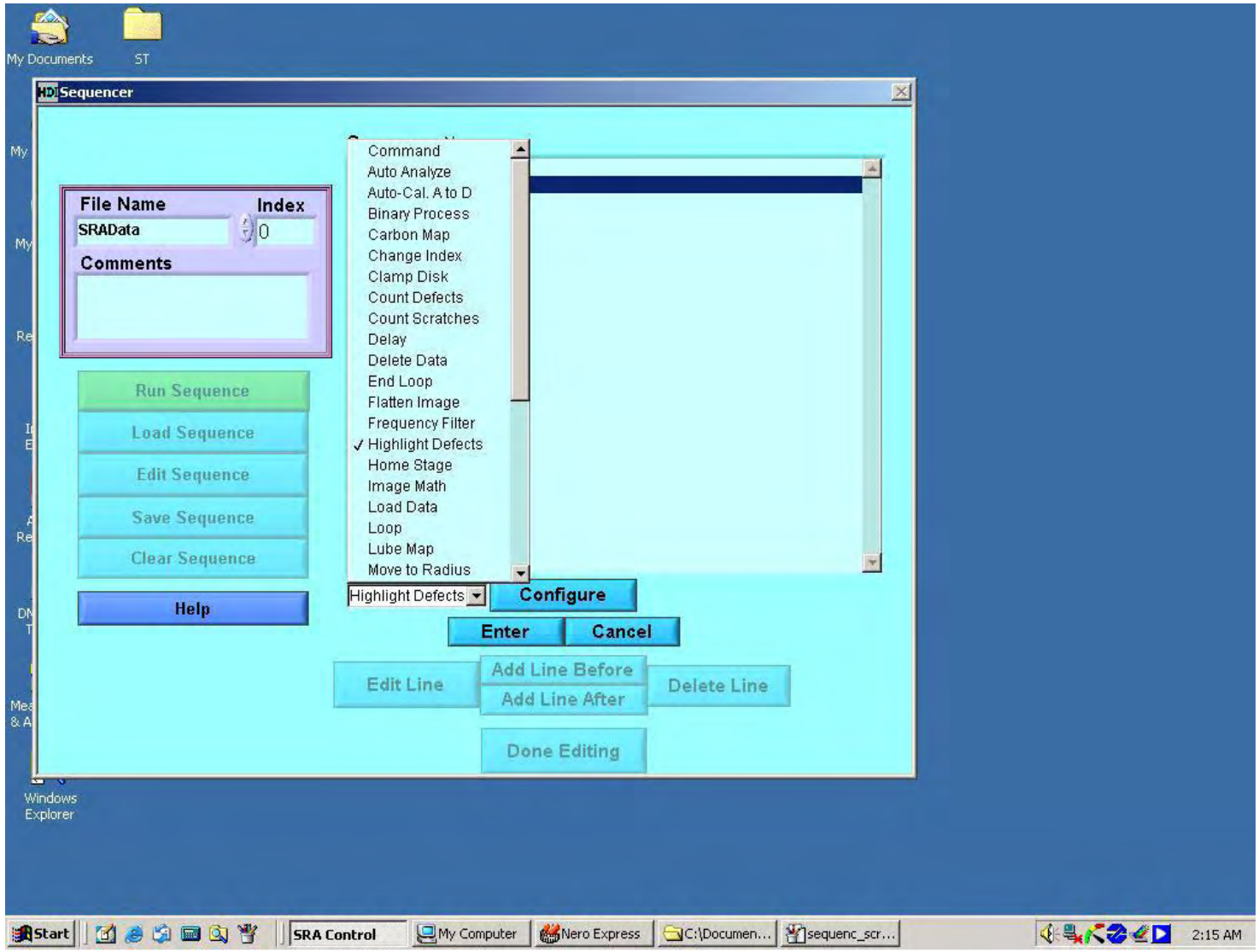


Sequencer:



Use the Sequencer to configure sequences of commands which enables automated scanning and data manipulation.

Sequencer Commands:



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